Accountancy

Company Accounts and Analysis of Financial Statements

Textbook for Class XII



12120



राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद् NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

First Edition

March 2007 Phalguna 1928

Reprinted

October 2007 Kartika 1929 December 2008 Pausa 1930 January 2010 Magha 1931 January 2011 Magha 1932 January 2012 Magha 1933

Revised Edition

June 2015 Jyaistha 1937

Reprinted

December 2015 Agrahayna 1937 January 2017 Magha 1938 December 2017 Pausha 1939 February 2019 Phalguna 1940 January 2020 Phalguna 1941 January 2021 Pausha 1942

PD 85T RSP

© National Council of Educational Research and Training, 2007

₹00

Printed on 80 GSM paper with NCERT watermark

Published at the Publication Division by the Secretary, National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi 110 016 and printed at

ISBN 978-93-5007-342-1

ALL RIGHTS RESERVED

- ☐ No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior permission of the publisher.
- ☐ This book is sold subject to the condition that it shall not, by way of trade, be lent, re-sold, hired out or otherwise disposed of without the publisher's consent, in any form of binding or cover other than that in which it is published.
- ☐ The correct price of this publication is the price printed on this page. Any revised price indicated by a rubber stamp or by a sticker or by any other means is incorrect and should be unacceptable.

OFFICES OF THE PUBLICATION DIVISION, NCERT

NCERT Campus Sri Aurobindo Marg New Delhi 110 016

Phone: 011-26562708

108, 100 Feet Road Hosdakere Halli Extension Banashankari III Stage

Bengaluru 560 085 Phone: 080-26725740

Navjivan Trust Building P.O. Navjivan Ahmedabad 380 014

Phone: 079-27541446

CWC Campus Opp. Dhankal Bus Stop

Kolkata 700 114 Phone: 033-25530454

CWC Complex Maligaon Guwahati 781 021

Phone: 0361-2674869

Publication Team

Head, Publication

: Anup Kumar Rajput

Division

Chief Editor : Shveta Uppal

Chief Production

Officer

: Arun Chitkara

Chief Business

: Vipin Dewan Manager (Incharge)

Editorial Assistant

: Mathew John

Production Assistant :.....

Cover

Shweta Rao

FOREWORD

The National Curriculum Framework (NCF), 2005, recommends that children's life at school must be linked to their life outside the school. This principle marks a departure from the legacy of bookish learning which continues to shape our system and causes a gap between the school, home and community. The syllabi and textbooks developed on the basis of NCF signify an attempt to implement this basic idea. They also attempt to discourage rote learning and the maintenance of sharp boundaries between different subject areas. We hope these measures will take us significantly further in the direction of a child-centred system of education outlined in the National Policy on Education (1986).

The success of this effort depends on the steps that school principals and teachers will take to encourage children to reflect on their own learning and to pursue imaginative activities and questions. We must recognise that, given space, time and freedom, children generate new knowledge by engaging with the information passed on to them by adults. Treating the prescribed textbook as the sole basis of examination is one of the key reasons why other resources and sites of learning are ignored. Inculcating creativity and initiative is possible if we perceive and treat children as participants in learning, not as receivers of a fixed body of knowledge.

These aims imply considerable change in school routines and mode of functioning. Flexibility in the daily time-table is as necessary as rigour in implementing the annual calendar so that the required number of teaching days are actually devoted to teaching. The methods used for teaching and evaluation will also determine how effective this textbook proves for making children's life at school a happy experience, rather than a source of stress or boredom. Syllabus designers have tried to address the problem of curricular burden by restructuring and reorienting knowledge at different stages with greater consideration for child psychology and the time available for teaching. The textbook attempts to enhance this endeavour by giving higher priority and space to opportunities for contemplation and wondering, discussion in small groups, and activities requiring hands-on experience.

The National Council of Educational Research and Training (NCERT) appreciates the hard work done by the textbook development committee

responsible for this book. We wish to thank the Chairperson of the advisory group in Social Sciences Professor Hari Vasudevan and the Chief Advisor for this book, Professor R.K. Grover, (Retd.) Director, School of Management Studies (IGNOU), New Delhi for guiding the work of this committee. Several teachers contributed to the development of this textbook; we are grateful to their principals for making this possible. We are indebted to the institutions and organisations which have generously permitted us to draw upon their resources, material and personnel. We are especially grateful to the members of the National Monitoring Committee, appointed by the Department of Secondary and Higher Education, Ministry of Human Resource Development under the Chairpersonship of Professor Mrinal Miri and Professor G.P. Deshpande, for their valuable time and contribution. As an organisation committed to the systemic reform and continuous improvement in the quality of its products, NCERT welcomes comments and suggestions which will enable us to undertake further revision and refinement.

New Delhi 20 November 2006 Director
National Council of Educational
Research and Training

TEXTBOOK DEVELOPMENT COMMITTEE

CHAIRPERSON, ADVISORY COMMITTEE FOR TEXTBOOKS IN SOCIAL SCIENCES AT SENIOR SECONDARY LEVEL

Hari Vasudevan, *Professor*, Department of History, University of Calcutta, Kolkata

CHIEF ADVISOR

R. K. Grover, *Professor, (Retd.)*, School of Management Studies, IGNOU, New Delhi

MEMBERS

D. K. Vaid, *Professor*, Department of Education in Social Sciences and Humanities, NCERT, New Delhi

Deepak Sehgal, Reader, Deen Dayal Upadhaya College, Delhi University

H.V. Jhamb, Reader, Khalsa College, Delhi University, Delhi

N. K. Kakar, *Director*, Maharaja Aggarsen Institute of Management, Rohini, New Delhi

Obul Reddy, *Professor*, Department of Commerce, Osmania University, Hyderabad, Andhra Pradesh

Rajesh Bansal, *PGT (Commerce)*, Rohatagi A.V. Senior Secondary School, Nai Sarak, New Delhi

Savita Shangari, PGT (Commerce), Gyan Bharati School, Saket, New Delhi

- S. C. Hussain, *Professor*, Department of Commerce, Jamia Millia Islamia, New Delhi
- S. S. Sehrawat, *Assistant Commissioner*, Kendriya Vidyalaya Sangathan, Chandigarh

Sudhir Sapra, PGT (Commerce), Kendriya Vidyalaya, Sultanpur, U.P.

Vanita Tripathi, *Lecturer*, Department of Commerce, Delhi School of Economics, Delhi

MEMBER-COORDINATOR

Shipra Vaidya, *Professor*, Department of Education in Social Sciences, NCERT. New Delhi

THE CONSTITUTION OF INDIA

PREAMBLE

WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a ¹[SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC] and to secure to all its citizens:

JUSTICE, social, economic and political;

LIBERTY of thought, expression, belief, faith and worship;

EQUALITY of status and of opportunity; and to promote among them all

FRATERNITY assuring the dignity of the individual and the ²[unity and integrity of the Nation];

IN OUR CONSTITUENT ASSEMBLY this twenty-sixth day of November, 1949 do HEREBY ADOPT, ENACT AND GIVE TO OURSELVES THIS CONSTITUTION.

^{1.} Subs. by the Constitution (Forty-second Amendment) Act, 1976, Sec. 2, for "Sovereign Democratic Republic" (w.e.f. 3.1.1977)

Subs. by the Constitution (Forty-second Amendment) Act, 1976, Sec.2, for "Unity of the Nation" (w.e.f. 3.1.1977)

ACKNOWLEDGEMENTS

The National Council of Educational Research and Training acknowledges the valuable contributions of the *Textbook Development Committee* which took considerable pains in the development and review of manuscript as well.

Thanks are due to Savita Sinha *Professor* under whose guidance the textbook was first brought out in the year 2007 as a follow up of the National Curriculum Framework 2005. The textbook has been reworked and updated at appropriate point of time as per the provisions of the Companies Act 2013. The contribution of Post Graduate Teachers of Commerce is duly acknowledged for bringing out this updated version of textbook and developing content for embedded QR Codes in all Chapters of the textbook.

The contribution of APC Office, Administration, Publication Division and Secretariat of NCERT are also duly acknowledged for bringing out the updated textbook of accountancy.

Note

The recent accounting practices adopted in the presentation of corporate financial reporting as per the Companies Act 2013 has resulted in the updation of this textbook upto August 16, 2019.

NCERT welcomes comments and suggestions which will enable us to undertake further revision and refinement of this volume.

CONTENTS OF ACCOUNTANCY - NOT-FOR-PROFIT ORGANISATION

| CHAPTER 1 | Accounting for Not-for-Profit Organisation | 1 |
|-----------|--|-----|
| CHAPTER 2 | Accounting for Partnership: Basic Concepts | 64 |
| CHAPTER 3 | RECONSTITUTION OF A PARTNERSHIP FIRM - ADMISSION OF A PARTNER | 115 |
| CHAPTER 4 | RECONSTITUTION OF A PARTNERSHIP FIRM - RETIREMENT/DEATH OF A PARTNER | 176 |
| CHAPTER 5 | DISSOLUTION OF PARTNERSHIP FIRM | 226 |

CONTENTS

| | Foreword | iii |
|-----------|---|-----|
| Chapter 1 | Accounting for Share Capital | 1 |
| 1.1 | Features of a Company | 1 |
| 1.2 | Kinds of Companies | 2 |
| 1.3 | Share Capital of a Company | 3 |
| 1.4 | Nature and Classes of Shares | 6 |
| 1.5 | Issue of Shares | 7 |
| 1.6 | Accounting Treatment | 9 |
| 1.7 | Forfeiture of Shares | 37 |
| Chapter 2 | Issue and Redemption of Debentures | 75 |
| 2.1 | Meaning of Debentures | 75 |
| 2.2 | Distinction between Shares and Debentures | 76 |
| 2.3 | Types of Debentures | 76 |
| 2.4 | Issue of Debentures | 78 |
| 2.5 | Over Subscription | 85 |
| 2.6 | Issue of Debentures for Consideration other than Cash | 86 |
| 2.7 | Issue of Debentures as a Collateral Security | 93 |
| 2.8 | Terms of Issue of Debentures | 97 |
| 2.9 | Interest on Debentures | 104 |
| 2.10 | Writing off Discount/Loss on Issue of Debentures | 106 |
| 2.11 | Redemption of Debentures | 110 |
| 2.12 | Redemption by Payment in Lump Sum | 112 |
| 2.13 | Redemption by Purchase in Open Market | 130 |
| 2.14 | Redemption by Conversion | 133 |
| Chapter 3 | Financial Statements of a Company | 144 |
| 3.1 | Meaning of Financial Statements | 144 |
| 3.2 | Nature of Financial Statements | 145 |
| 3.3 | Objectives of Financial Statements | 146 |
| 3.4 | Types of Financial Statements | 147 |
| 3.5 | Uses and Importance of Financial Statements | 164 |
| 3.6 | Limitations of Financial Statements | 165 |

| Chapter 4 | Analysis of Financial Statements | 171 |
|-----------|--|-----|
| 4.1 | Meaning of Analysis of Financial Statements | 171 |
| 4.2 | Significance of Analysis of Financial Statements | 172 |
| 4.3 | Objectives of Analysis of Financial Statements | 173 |
| 4.4 | Tools of Analysis of Financial Statements | 174 |
| 4.5 | Comparative Statements | 176 |
| 4.6 | Common Size Statement | 182 |
| 4.7 | Limitations of Financial Analysis | 187 |
| Chapter 5 | Accounting Ratios | 194 |
| 5.1 | Meaning of Accounting Ratios | 194 |
| 5.2 | Objectives of Ratio Analysis | 195 |
| 5.3 | Advantages of Ratio Analysis | 195 |
| 5.4 | Limitations of Ratio Analysis | 197 |
| 5.5 | Types of Ratios | 198 |
| 5.6 | Liquidity Ratios | 200 |
| 5.7 | Solvency Ratios | 204 |
| 5.8 | Activity (or Turnover) Ratio | 213 |
| 5.9 | Profitability Ratios | 223 |
| Chapter 6 | Cash Flow Statement | 241 |
| 6.1 | Objectives of Cash Flow Statement | 242 |
| 6.2 | Benefits of Cash Flow Statement | 242 |
| 6.3 | Cash and Cash Equivalents | 243 |
| 6.4 | Cash Flows | 243 |
| 6.5 | Classification of Activities for the Preparation of Cash Flow Statement | 243 |
| 6.6 | Ascertaining Cash Flow from Operating Activities | 248 |
| 6.7 | Ascertainment of Cash Flow from Investing and Financing Activities | 258 |
| 6.8 | Preparation of Cash Flow Statement | 261 |

LEARNING OBJECTIVES

After studying this chapter, you will be able to:

- explain the basic nature of a joint stock company as a form of business organisation and the various kinds of companies based on liability of their members:
- describe the types of shares issued by a company;
- explain the accounting treatment of shares issued at par, at premium and at discount including oversubsription;
- outline the accounting for forfeiture of shares and reissue of forfeited shares under varying situations:
- workout the amounts to be transferred to capital reserve when forfeited shares are reissued; and prepare share forfeited account;

company form of organisation is the third stage in the evolution of forms of organisation. Its capital is contributed by a large number of persons called shareholders who are the real owners of the company. But neither it is possible for all of them to participate in the management of the company nor considered desirable. Therefore, they elect a Board of Directors as their representative to manage the affairs of the company. In fact, all the affairs of the company are governed by the provisions of the Companies Act. 2013. A company means a company incorporated or registered under the Companies Act. 2013 or under any other earlier Companies Acts. According to Chief Justice Marshal, "a company is a person, artificial, invisible, intangible and existing only in the eyes of law. Being a mere creation of law. it possesses only those properties which the charter of its creation confers upon it, either expressly or as incidental to its very existence".

A company usually raises its capital in the form of shares (called share capital) and debentures (debt capital.) This chapter deals with the accounting for share capital of companies.

1.1 Features of a Company

A company may be viewed as an association of person who contribute money or money's worth to a common inventory and use it for a common purpose. It is an artificial person having corporate legal entity distinct from its members (shareholders) and has a common seal used for its signature. Thus,

it has certain special features which distinguish it from the other forms of organisation. These are as follows:

- *Body Corporate:* A company is formed according to the provisions of Law enforced from time to time. Generally, in India, the companies are formed and registered under Companies Law except in the case of Banking and Insurance companies for which a separate Law is provided for.
- Separate Legal Entity: A company has a separate legal entity which is distinct and separate from its members. It can hold and deal with any type of property. It can enter into contracts and even open a bank account in its own name.
- Limited Liability: The liability of the members of the company is limited to the extent of unpaid amount of the shares held by them. In the case of the companies limited by guarantee, the liability of its members is limited to the extent of the guarantee given by them in the event of the company being wound up.
- *Perpetual Succession:* The company being an artificial person created by law continues to exist irrespective of the changes in its membership. A company can be terminated only through law. The death or insanity or insolvency of any member of the company in no way affects the existence of the company. Members may come and go but the company continues.
- Common Seal: The company being an artificial person, cannot sign its name by itself. Therefore, every company is required to have its own seal which acts as official signatures of the company. Any document which does not carry the common seal of the company is not binding on the company.
- Transferability of Shares: The shares of a public limited company are
 freely transferable. The permission of the company or the consent of any
 member of the company is not necessary for the transfer of shares. But
 the Articles of the company can prescribe the manner in which the transfer
 of shares will be made.
- May Sue or be Sued: A company being a legal person can enter into contracts and can enforce the contractual rights against others. It can sue and be sued in its name if there is a breach of contract by the company.

1.2 Kinds of Companies

Companies can be classified either on the basis of the liability of its members or on the basis of the number of members. On the basis of liability of its members the companies can be classified into the following three categories:

(i) Companies Limited by Shares: In this case, the liability of its members is limited to the extent of the nominal value of shares held by them. If a member has paid the full amount of the shares, there is no liability on his part whatsoever may be for the debts of the company. He need not pay a single paise from his private property. However, if there is

- any liability involved, it can be enforced during the existence of the company as well as during the winding up.
- (ii) Companies Limited by Guarantee: In this case, the liability of its members is limited to the amount they undertake to contribute in the event of the company being wound up. Thus, the liability of the members will arise only in the event of its winding up.
- (iii) *Unlimited Companies:* When there is no limit on the liability of its members, the company is called an unlimited company. When the company's property is not sufficient to pay off its debts, the private property of its members can be used for the purpose. In other words, the creditors can claim their dues from its members. Such companies are not found in India even though permitted by the Companies Act.

On the basis of the number of members, companies can be divided into three categories as follows:

- (i) *Public Company*: A public company means a company which (a) is not a private company; (b) is a company which is not a subsidiary of a private company.
- (ii) *Private Company*: A private company is one which by its articles of association:
 - (a) Restricts the right to transfer its shares;
 - (b) A private company must have at least 2 persons, except in case of one person company;
 - (c) Limits the number of its members to 200 (excluding its employees);
- (iii) One Person Company (OPC): Sec. 2 (62) of the companies Act, 2013, defines OPC as a "company which has only one person as a member". Rule 3 of the Companies (Incorporation) Rules, 2014 provides that:
 - (a) Only a natural person being an Indian citizen and resident in India can form one person company,
 - (b) It cannot carry out non-banking financial investment activities.
 - (c) Its paid up share capital is not more than Rs. 50 Lakhs
 - (d) Its average annual turnover of three years does not exceed Rs. 2 Crores.

1.3 Share Capital of a Company

A company, being an artificial person, cannot generate its own capital which has necessarily to be collected from several persons. These persons are known as shareholders and the amount contributed by them is called share capital. Since the number of shareholders is very very large, a separate capital account cannot be opened for each one of them. Hence, innumerable streams of capital contribution merge their identities in a common capital account called as 'Share Capital Account'.

1.3.1 Categories of Share Capital

From accounting point of view the share capital of the company can be classified as follows:

- Authorised Capital: Authorised capital is the amount of share capital which a company is authorised to issue by its Memorandum of Association. The company cannot raise more than the amount of capital as specified in the Memorandum of Association. It is also called Nominal or Registered capital. The authorised capital can be increased or decreased as per the procedure laid down in the Companies Act. It should be noted that the company need not issue the entire authorised capital for public subscription at a time. Depending upon its requirement, it may issue share capital but in any case, it should not be more than the amount of authorised capital.
- Issued Capital: It is that part of the authorised capital which is actually issued to the public for subscription including the shares allotted to vendors and the signatories to the company's memorandum. The authorised capital which is not offered for public subscription is known as 'unissued capital'. Unissued capital may be offered for public subscription at a later date.
- Subscribed Capital: It is that part of the issued capital which has been actually subscribed by the public. When the shares offered for public subscription are subscribed fully by the public the issued capital and subscribed capital would be the same. It may be noted that ultimately, the subscribed capital may be equal to or less than issued capital. In case the number of shares subscribed is less than what is offered, the company allots only the number of shares for which subscription has been received. In case it is higher than what is offered, the allotment will be equal to the offer. In other words, the fact of over subscription is not reflected in the books.
- Called up Capital: It is that part of the subscribed capital which has been called up on the shares, i.e., what the company has asked the shareholders to pay. The company may decide to call the entire amount or part of the face value of the shares, For example, if the face value (also called nominal value) of a share allotted is Rs. 10 and the company has called up only Rs. 7 per share, in that scenario, the called up capital is Rs. 7 per share. The remaining Rs. 3 may be collected from its shareholders as and when needed.
- Paid up Capital: It is that portion of the called up capital which has been actually received from the shareholders. When the shareholders have paid all the called amount, the called up capital is the same to the paid up capital. If any of the shareholders has not paid amount on calls, such an amount may be called as 'calls in arrears'. Therefore, paid up capital is equal to the called-up capital minus call in arrears.
- *Uncalled Capital:* That portion of the subscribed capital which has not yet been called up. As stated earlier, the company may collect this amount any time when it needs further funds.

• Reserve Capital: A company may reserve a portion of its uncalled capital to be called only in the event of winding up of the company. Such uncalled amount is called 'Reserve Capital' of the company. It is available only for the creditors on winding up of the company.

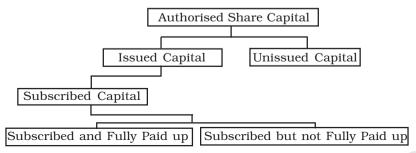


Exhibit. 1.1: Categories of Share Capital

Let us take the following example and show how the share capital will be shown in the balance sheet. Sunrise Company Ltd., New Delhi, has registered its capital as Rs. 40,00,000, divided into 4,00,000 shares of Rs. 10 each. The company offered to the public for subscription of 2,00,000 shares of Rs. 10 each, to be received as Rs. 2 on application, Rs.3 on allotment, Rs.3 on first call and the balance on final call. The company received applications for 2,50,000 shares. The company finalised the allotment of 2,00,000 shares and rejected applications for 50,000 shares. The company did not make the final call. The company received all the amount except on 2,000 shares where call money has not been received. The above amounts will be shown in the Notes to Accounts of the balance sheet of Sunrise Company Ltd. as follows:

Notes to Accounts

| Share Capital | | (Rs.) |
|---|-----------|-----------|
| <u>Authorised or Registered or Nominal Capital:</u> | | |
| 4,00,000 Shares of Rs. 10 each | | 40,00,000 |
| | | |
| Issued Capital | | |
| 2,00,000 Shares of Rs. 10 each | | 20,00,000 |
| | | |
| Subscribed Capital | | |
| Subscribed but not fully paid up | | |
| 2,00,000 Shares of Rs. 10 each, Rs. 8 called up | 16,00,000 | |
| Less: Calls in Arrears | (6,000) | 15,94,000 |
| | | |

1.4 Nature and Classes of Shares

Shares, refer to the units into which the total share capital of a company is divided. Thus, a share is a fractional part of the share capital and forms the basis of ownership interest in a company. The persons who contribute money through shares are called shareholders.

The amount of authorised capital, together with the number of shares in which it is divided, is stated in the Memorandum of Association but the classes of shares in which the company's capital is to be divided, along with their respective rights and obligations, are prescribed by the Articles of Association of the company. As per The Companies Act, a company can issue two types of shares (1) preference shares, and (2) equity shares (also called ordinary shares).

1.4.1 Preference Shares

According to Section 43 of The Companies Act, 2013, a preference share is one, which fulfils the following conditions:

- (a) That it carries a preferential right to dividend to be paid either as a fixed amount payable to preference shareholders or an amount calculated by a fixed rate of the nominal value of each share before any dividend is paid to the equity shareholders.
- (b) That with respect to capital it carries or will carry, on the winding up of the company, the preferential right to the repayment of capital before anything is paid to equity shareholders.

However, notwithstanding the above two conditions, a holder of the preference share may have a right to participate fully or to a limited extent in the surpluses of the company as specified in the Memorandum or Articles of the company. Thus, the preference shares can be participating and non-participating. Similarly, these shares can be cumulative or non-cumulative, and redeemable or irredeemable.

1.4.2 Equity Shares

According to Section 43 of The Companies Act, 2013, an equity share is a share which is not a preference share. In other words, shares which do not enjoy any preferential right in the payment of dividend or repayment of capital, are termed as equity/ordinary shares. The equity shareholders are entitled to share the distributable profits of the company after satisfying the dividend rights of the preference share holders. The dividend on equity shares is not fixed and it may vary from year to year depending upon the amount of profits available

for distribution. The equity share capital may be (i) with voting rights; or (ii) with differential rights as to voting, dividend or otherwise in accordance with such rules and subject to such conditions as may be prescribed in the Articles of Association of the company.

Test your Understanding - I

State which of the following statements are true:

- (a) A company is an artificial person.
- (b) Shareholders of a company are liable for the acts of the company.
- (c) Every member of a company is entitled to take part in its management.
- (d) Company's shares are generally transferable.
- (e) Share application account is a personal account.
- (f) The director of a company must be a shareholder.
- (g) Paid up capital can exceed called up capital.
- (h) Capital reserves are created from capital profits.
- (i) At the time of issue of shares, the maximum rate of securities premium is 10%.
- (j) The part of capital which is called up only on winding up is called reserve capital.

1.5 Issue of Shares

A salient characteristic of the capital of a company is that the amount on its shares can be gradually collected in easy instalments spread over a period of time depending upon its growing financial requirement. The first instalment is collected along with application and is thus, known as application money, the second on allotment (termed as allotment money), and the remaining instalments are termed as first call, second call and so on. The word final is suffixed to the last instalment. However, this in no way which prevents a company from calling the full amount on shares right at the time of application.

The important steps in the procedure of share issue are:

- *Issue of Prospectus:* The company first issues the prospectus to the public. Prospectus is an invitation to the public that a new company has come into existence and it needs funds for doing business. It contains complete information about the company and the manner in which the money is to be collected from the prospective investors.
- Receipt of Applications: When prospectus is issued to the public, prospective investors intending to subscribe the share capital of the company would make an application along with the application money

and deposit the same with a scheduled bank as specified in the prospectus. The company has to get minimum subscription within 120 days from the date of the issue of the prospectus. If the company fails to receive the same within the said period, the company cannot proceed for the allotment of shares and application money should be returned within 130 days of the date of issue of prospectus.

Allotment of Shares: If minimum subscription has been received, the
company may proceed for the allotment of shares after fulfilling certain
other legal formalities. Letters of allotment are sent to those whom the
shares have been alloted, and letters of regret to those to whom no
allotment has been made. When allotment is made, it results in a valid
contract between the company and the applicants who now became the
shareholders of the company.

Minimum Subscription

The minimum amount that, in the opinion of directors, must be raised to meet the needs of business operations of the company relating to:

- the price of any property purchased, or to be purchased, which has to be met wholly or partly out of the proceeds of issue;
- preliminary expenses payable by the company and any commission payable in connection with the issue of shares:
- the repayment of any money borrowed by the company for the above two matters:
- working capital; and
- any other expenditure required for the usual conduct of business operations.

It is to be noted that 'minimum subscription' of capital cannot be less than 90% of the issued amount according to SEBI (Disclosure and Investor Protection) Guidelines, 2000 [6.3.8.1 and 6.3.8.2]. If this condition is not satisfied, the company shall forthwith refund the entire subscription amount received. If a delay occurs beyond 8 days from the date of closure of subscription list, the company shall be liable to pay the amount with interest at the rate of 15% [Section 73(2)].

Shares of a company are issued either at par or at a premium. Shares are to be issued at *par* when their issue price is exactly equal to their nominal value according to the terms and conditions of issue. When the shares of a company are issued more than its nominal value (face value), the excess amount is called premium.

Irrespective of the fact that shares are issued at par or at a premium, the share capital of a company as stated earlier, may be collected in instalments payable at different stages.

1.6 Accounting Treatment

On application: The amount of money paid with various instalment represents the contribution to share capital and should ultimately be credited to share capital. However, for the sake of convenience, initially individual accounts are opened for each instalment. All money received along with application is deposited with a scheduled bank in a separate account opened for the purpose. The journal entry is as follows:

| Bank A/c | Dr. | |
|---------------------------------|----------------------|--------------|
| To Share Application A/o | 2 | |
| (Amount received on application | on for — shares @ Rs | _ per share) |

On allotment : When minimum subscription has been received and certain legal formalities on the allotment of shares have been duly compiled with, the directors of the company proceed to make the allotment of shares.

The allotment of shares implies a contract between the company and the applicants who now become the allottees and assume the status of shareholders or members.

Allotment of Shares (Implications from accounting point of view)

- It is customary to ask for some amount called "Allotment Money" from the allottees on the shares allotted to them as soon as the allotment is made.
- With the acceptance to the offer made by the applicants, the amount of application money received has to be transferred to share capital account as it has formally become the part of the same.
- The money received on rejected applications should be fully returned to the applicant within period prescribed by law/SEBI.
- In case lesser number of shares have to be allotted, than those applied for the excess application money must be adjusted towards the amount due on allotment from the allottees.
- The effect of the later two steps is to close the share application account which is only a temporary account for share capital transactions.

The journal entries with regard to allotment of shares are as follows:

For Transfer of Application Money
 Share Application A/c Dr.
 To Share Capital A/c
 (Application money on _____ Shares allotted/transferred to Share Capital)

2. For Money Refunded on Rejected Application

Share Application A/c

Dr.

To Bank A/c

(Application money returned on rejected application for ___shares)

3. For Amount Due on Allotment

Share Allotment A/c

Dr.

To Share Capital A/c

4. For Adjustment of Excess Application Money

Share Application A/c

Dr.

To Share Allotment A/c

(Application Money on __Shares @ Rs__per shares adjusted to the amount due on allotment).

5. For Receipt of Allotment Money

Bank A/c

Dr.

To Share Allotment A/c

(Allotment money received on Shares @

Rs. — per share Combined Account)

Note:- The journal entries (2) and (4) can also be combined as follows:

Share Application A/c

To Share Allotment A/c

To Bank A/c

(Excess application money adjusted to share

allotment and balance refunded)

Sometimes *a combined account* for share application and share allotment called 'Share Application and Allotment Account' is opened in the books of a company. The combined account is based on the reasoning that allotment without application is impossible while application without allotment is meaningless. These two stages of share capital are closely inter-related. When a combined account is maintained, journal entries are recorded in the following manner:

| 1. | For Receipt of Application and Allotment | |
|----|---|--------|
| | Bank A/c | Dr. |
| | To Share Application and Allotment A/c | |
| | (Money received on applications for shares @ Rs per share). | |
| 2. | For Transfer of Application Money and Allotment Amou | nt Due |
| | Share Application and Allotment A/c | Dr. |
| | To Share Capital A/c | |
| | (Transfer of application money to Share Capital According amount due or allotment of — Share @ Rs | |
| 3. | For Money Refunded on Rejected Applications | |
| | Share Application and Allotment A/c | Dr. |
| | To Bank A/c | |
| | (Application money returned on rejected application for shares) | |
| 4. | On Receipt of Allotment Amount | |
| | Bank A/c | Dr. |
| | To Share Application and Allotment A/c | |
| | (Balance of Allotment Money Received) | |

Applications Supported by Blocked Amount (ASBA)

Initial Public Offers and Rights Issues etc. of securities (Shares, Debentures or Other Financial Instruments) may be subscribed by paying Application Money by a banking instrument (Cheque, Pay order / Draft, Debit to Bank Account or through Applications Supported Blocked Amount (ASBA). ASBA is one of the methods for payment of Application Money.

ASBA is a process developed by Securities and Exchange Board of India (SEBI)to apply for subscribing to IPOs and Rights Issue etc. of securities. Under the method, the applicant authorises the bank to block the bank account for the application money, for subscribing the issue. The Bank debits the applicant's account with application money only if he / she is allotted securities (Shares / Debentures etc.) for the amount payable on allotted securities. In case, securities are not allotted, the bank removes the block (lien) on the amount.

Under ASBA based applications, Application Amount payable on the securities applied is blocked by the bank i.e., it marks a lien on amount payable as Application Money on Securities applied. After the company has allotted securities, bank debits the applicant's bank account by the amount payable on allotted securities and remove the lien on the balance amount.

On Calls: Calls play a vital role in making shares fully paid-up and for realising the full amount of shares from the shareholders. In the event of shares not being fully called up till the completion of allotment, the directors have the authority to ask for the remaining amount on shares as and when they decide about the same. It is also possible that the timing of the payment of calls by the shareholders is determined at the time of share issue itself and given in the prospectus.

Two points are important regarding the calls on shares. First, the amount on any call should not exceed 25% of the face value of shares. Second, there must be an interval of at least one month between the making of two calls unless otherwise provided by the articles of association of the company.

When a call is made and the amount of the same is received, the journal entries are as given below:

For Call Amount Due
 Share Call A/c
 To Share Capital A/c
 (Call money due on ___Shares @ Rs. ___ per share)
 For Receipt of Call Amount
 Bank A/c
 To Share Call A/c
 (Call money received)

The word/words First, Second, or Third must be added between the words "Share" and 'Call' in the Share Call account depending upon the identity of the call made. For example, in case of first call it will be termed as 'Share First Call Account', in case of second call it will be 'Share Second Call Account' and so on. Another point to be noted is that the words 'and Final' will also be added to the last call, say, if second call is the last call it will be termed as 'Second and Final Call' and if it is the third call which is the last call, it will be termed as 'Third and Final Call'. It is also possible that the whole balance after allotment may be collected in one call only. In that case the first call itself, shall be termed as the 'First and Final Call'.

The following points should be kept in mind while issuing the share capital for public subscription:

- 1. The application money should be at least 5% of the face value of the share.
- 2. Calls are to be made as per the provisions of the articles of association.
- 3. Where there is no articles of association of its own, the following provisions of Table A will apply:
 - (a) A period of one month must elapse between two calls;
 - (b) The amount of call should not exceed 25% of the face value of the share;

- (c) A minimum of 14 days' notice is given to the shareholders to pay the amount: and
- (d) Calls must be made on a uniform basis on all shares within the same class.
- 4. The procedure for accounting for the issue of both equity and preference shares is the same. To differentiate between the two the words 'Equity' and 'Preference' is prefixed to each and every instalment.

Illustration 1

Mona Earth Mover Limited decided to issue 12,000 shares of Rs.100 each payable at Rs.30 on application, Rs.40 on allotment, Rs.20 on first call and balance on second and final call. Applications were received for 13,000 shares. The directors decided to reject application of 1,000 shares and their application money being refunded in full. The allotment money was duly received on all the shares, and all sums due on calls are received except on 100 shares.

Record the transactions in the books of Mona Earth Movers Limited

Solution

Books of Mona Earth Mover Limited Journal

| Particulars | | L.F. | | |
|---|--|--|--|--|
| | | | | Amount (Rs.) |
| Bank A/c | Dr. | | · | (113.) |
| | | | -,, | 3,90,000 |
| (Application money on 13,000 shares @ Rs.30 per share received) | | | | |
| Share Application A/c | Dr. | | 3,60,000 | |
| To Share Capital A/c | | | | 3,60,000 |
| (Application money transferred to share capita | al) | | | |
| Share Application A/c | Dr. | | 30,000 | |
| To Bank A/c | | | | 30,000 |
| (Application money on 1,000 shares returned) | | | | |
| Share Allotment A/c | Dr. | | 4,80,000 | |
| To Share Capital A/c | | | | 4,80,000 |
| (Money due on allotment of 12,000 shares @ Rs. 40 per share) | | | | |
| | Bank A/c To Share Application A/c (Application money on 13,000 shares @ Rs.30 per share received) Share Application A/c To Share Capital A/c (Application money transferred to share capital Share Application A/c To Bank A/c (Application money on 1,000 shares returned) Share Allotment A/c To Share Capital A/c (Money due on allotment of 12,000 | Bank A/c Dr. To Share Application A/c (Application money on 13,000 shares @ Rs.30 per share received) Share Application A/c Dr. To Share Capital A/c (Application money transferred to share capital) Share Application A/c Dr. To Bank A/c (Application money on 1,000 shares returned) Share Allotment A/c Dr. To Share Capital A/c (Money due on allotment of 12,000 | Bank A/c Dr. To Share Application A/c (Application money on 13,000 shares @ Rs.30 per share received) Share Application A/c Dr. To Share Capital A/c (Application money transferred to share capital) Share Application A/c Dr. To Bank A/c (Application money on 1,000 shares returned] Share Allotment A/c Dr. To Share Capital A/c (Money due on allotment of 12,000 | Bank A/c To Share Application A/c (Application money on 13,000 shares @ Rs.30 per share received) Share Application A/c To Share Capital A/c (Application money transferred to share capital) Share Application A/c To Bank A/c (Application money on 1,000 shares returned] Share Allotment A/c To Share Capital A/c (Money due on allotment of 12,000 |

| 4,80,000 |
|----------|
| |
| 1 1 |
| |
| 00 |
| 2,40,000 |
| |
| 00 |
| 2,38,000 |
| |
| 00 |
| 1,20,000 |
| |
| 00 |
| 1,19,000 |
| |
| 000 |

Illustration 2

Eastern Company Limited issued 40,000 shares of Rs. 10 each to the public for the subscription out of its share capital, payable as Rs. 4 on application, Rs. 3 on allotment and the balance on Ist and final call. Applications were received for 40,000 shares. The company made the allotment to the applicants in full. All the amounts due on allotment and first and final call were duly received.

Give the journal entries in the books of the company.

Solution

Books of Eastern Company Limited Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|-----|------|--------------------------|---------------------------|
| | Bank A/c To Share Application A/c (Application money on 40,000 shares @ Rs.4 per share received) | Dr. | | 1,60,000 | 1,60,000 |

| Share Application A/c To Share Capital A/c (Application money transferred to share cap | Dr. pital) | | 1,60,000 | 1,60,000 |
|--|---------------|-----|----------|----------|
| Share Allotment A/c To Share Capital A/c (Money due on allotment of 40,000 shares © Rs. 3 per share) | Dr. | | 1,20,000 | 1,20,000 |
| Bank A/c To Share allotment A/c (Money received on 40,000 shares @ Rs. 3 p share on allotment) | Dr. er | | 1,20,000 | 1,20,000 |
| Share First and Final Call A/c To Share Capital A/c (Money due on 40,000 shares @ Rs. 3 per shon First and final call) | Dr. nare | | 1,20,000 | 1,20,000 |
| Bank A/c To Share First and Final Call A/c (First and final call money received) | Dr. | • (| 1,20,000 | 1,20,000 |

Do it Yourself

1. On April 01, 2019, a limited company was incorporated with an authorised capital of Rs. 40,000 divided into shares of Rs. 10 each. It offered to the public for subscription of 3,000 shares payable as follows:

| On Application | Rs. 3 per share |
|---|--------------------|
| On Allotment | Rs. 2 per share |
| On First Call (One month after allotment) | Rs. 2.50 per share |
| On Second and Final Call | Rs. 2.50 per share |

The shares were fully subscribed for by the public and application money duly received on April 15, 2019. The directors made the allotment on May 1,2015.

How will you record the share capital transactions in the books of a company if the amounts due have been duly received, and the company maintains the combined account for application and allotment.

2. Harsha Ltd., was registered with authorised capital of Rs. 25,00,000 divided into 2,50,000 Equity Shares of Rs. 10 each. Promoters of the company had undertaken to subscribe 25,000 Equity Shares of Rs. 10 each once the company was incorporated. The amount was paid by the subscribers and received by the company.

The company later issued at par 2,00,000 shares to public for subscription. It received applications for 1,80.000 Equity Shares both through ASBA and physical mode. Shares were allotted to all the applicants.

Determine the Authorised Share Capital, Issued Share Capital and Subscribed Share Capital of the Harsha Ltd.

Dr

1.6.1 Calls in Arrears

It may happen that shareholders do not pay the call amount on due date. When any shareholder fails to pay the amount due on allotment or on any of the calls, such amount is known as 'Calls in Arrears'/'Unpaid Calls'. Calls in Arrears represent the debit balance of all the calls account. Such amount shall appear as 'Note to Accounts (Refer Chapter 3). However, where a company maintains 'Calls in Arrears' Account, it needs to pass the following additional journal entry:

Calls in Arrears A/c

To Share First Call Account A/c

To Share Second and Final Call Account A/c

(Calls in arrears brought into account)

The Articles of Association of a company may empower the directors to charge interest at a stipulated rate on calls in arrears. If the articles are silent in this regard, the rule contained in Table F shall be applicable which states that the interest at a rate not exceeding 10% p.a. shall have to be paid on all unpaid amounts on shares for the period intervening between the day fixed for payment and the time of actual payment thereof.

On receipt of the call amount together with interest, the amount of interest shall be credited to interest account while call money shall be credited to the respective call account or to calls in arrears account. When the shareholder makes the payment of calls in arrears together with interest, the entry will be as follows:

Bank A/c Dr.

To Calls in Arrears A/c

To Interest on Calls in Arrears A/c

(Calls in arrears received with interest)

Note: If nothing is specified, there is no need to take the interest on calls in arrears account and record the above entry

Illustration 3

Cronic Limited issued 10,000 equity shares of Rs. 10 each payable at Rs. 2.50 on application, Rs. 3 on allotment, Rs. 2 on first call, and the balance of Rs. 2.50 on second and final call. All the shares were fully subscribed and paid except of a shareholder having 100 shares who could not pay for second and final call. Give journal entries to record these transactions.

Solution:

Books of Cronic Limited Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|-------------------|------|--------------------------|---------------------------|
| | Bank A/c To Equity Share Application A/c (Money received on applications for 10,000 shares @ Rs. 2.50 per share) | Dr. | | 25,000 | 25,000 |
| | Equity Share Application A/c To Equity Share Capital A/c (Transfer of application money on 10,000 shares to share capital) | Dr. | | 25,000 | 25,000 |
| | Equity Share Allotment A/c To Equity Share Capital A/c (Amount due on the allotment of 10,000 shares @ Rs. 3 per share) | Dr. | | 30,000 | 30,000 |
| | Bank A/c To Equity Share Allotment A/c (Allotment money received) | Dr. | | 30,000 | 30,000 |
| | Share First Call A/c To Equity Share Capital A/c (First call money due on 10,000 shares @ Rs. 2 per share) | Dr. | | 20,000 | 20,000 |
| | Bank A/c To Equity Share First Call A/c (First call money received) | Dr. | | 20,000 | 20,000 |
| | Share Second and Final Call A/c To Equity Share Capital A/c (Final call money due) | Dr. | | 25,000 | 25,000 |
| | Bank A/c Call in Arrears A/c To Equity Share Second and Final Call A (Final call money received except that of 100 shares) | Dr. Dr. ./c | | 24,750 250 | 25,000 |

1.6.2 Calls in Advance

Sometimes shareholders pay a part or the whole of the amount of the calls not yet made. The amount so received from the shareholders is known as "Calls in Advance". The amount received in advance is a liability of the company and should be credited to 'Call in Advance Account." The amount received will be adjusted towards the payment of calls as and when they becomes due. Table F of the Companies Act provides for the payment of interest on calls in advance at a rate not exceeding 12% per annum.

The following journal entry is recorded for the amount of calls received in advance.

Bank A/c Dr.

To Calls in Advance A/c

(Amount received on call in advance)

On the due date of the calls, the amount of 'Calls in Advance' is adjusted by the following entry:

Calls in Advance A/c Dr

To Particular Call A/c

(Calls in advance adjusted with the call money due)

The balance in 'Calls in Advance' account is shown as a separate item under the title *Equity and Liabilities* in the company's balance sheet under the head 'current liabilities', as sub-head 'others current liabilities'. It is not added to the amount of paid-up capital.

As 'Calls in Advance' is a liability of the company, it is under obligation, if provided by the Articles, to pay interest on such amount from the date of its receipt up to the date when appropriate call is due for payment. A stipulation is generally made in the Articles regarding the rate at which interest is payable. However, if Articles are silent on this account, Table F is applicable which provides for interest on calls in advance at a rate not exceeding 12% per annum.

The accounting treatment of interest on Calls in Advance is as follows:

1. For Payment of Interest
Interest on Calls in Advance A/c
To Bank A/c
(Interest paid on Calls in Advance)
OR
2. (a) For Interest due
Interest on Calls in Advance A/c
Dr.

To Sundry Shareholder's A/c
(Interest paid on Calls in Advance)

2.(b) For Interest Paid

Sundry Shareholder's A/c Dr.
To Bank A/c

Illustration 4

Konica Limited registered with an authorised equity capital of Rs. 2,00,000 divided into 2,000 shares of Rs. 100 each, issued for subscription of 1,000 shares payable at Rs. 25 per share on application, Rs. 30 per share on allotment, Rs. 20 per share on first call and the balance as and when required.

Application money on 1,000 shares was duly received and allotment was made to them. The allotment amount was received in full, but when the first call was made, one shareholder failed to pay the amount on 100 shares held by him and another shareholder with 50 shares, paid the entire amount on his shares. The company did not make any other call.

Give the necessary journal entries in the books of the company to record these share capital transactions.

Solution

Books of Konica Limited Journal

| | Juliai | | | | |
|------|---|-------------|------|--------------------------|---------------------------|
| Date | Particulars | \ \(\) | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
| | Bank A/c To Equity Share Application A/c (Money received on application for 1,000 shares @ Rs. 25 per share) | Dr. | | 25,000 | 25,000 |
| | Equity Share Application A/c To Equity Share Capital A/c (Transfer of application money on 1,000 shato share capital) | Dr. ares | | 25,000 | 25,000 |
| | Equity Share Allotment A/c To Equity Share Capital A/c (Amount due on the allotment of 1,000 shares @ Rs. 30 per share) | Dr. | | 30,000 | 30,000 |
| | Bank A/c To Equity Share Allotment A/c (Allotment money received) | Dr. | | 30,000 | 30,000 |
| | Equity Share First Call A/c To Equity Share Capital A/c (First call money due on 1,000 shares @ Rs. 20 per share) | Dr. | | 20,000 | 20,000 |
| | Bank A/c Calls in Arrears A/c To Equity Share First Call A/c To Calls in Advance A/c (First call money received on 900 shares, ca arrears for 100 shares @ Rs.20 per share an in advance for 50 shares @ Rs.25 per share. | d calls | | 19,250 2,000 | 20,000 1,250 |

In practice the entries for the amount received are recorded in the cash book and not in the journal (See Illustration 5).

Illustration 5

Unique Pictures Limited was registered with an authorised capital of Rs. 5,00,000 divided into 20,000, 5% preference shares of Rs. 10 each and 30,000 equity shares of Rs. 10 each. The company issued 10,000 preference and 15,000 equity shares for public subscription. Calls on shares were made as under

| | Equity Shares | Preference Shares |
|-----------------------|---------------|-------------------|
| | Rs. | Rs. |
| Application | 2 | 2 |
| Allotment | 3 | 3 |
| First Call | 2.50 | 2.50 |
| Second and Final Call | 2.50 | 2.50 |

All these shares were fully subscribed. All the dues were received except the second and final call on 100 equity shares and on 200 preference shares. Record these transactions in the journal. You are also required to prepare the cash book and balance sheet.

Solution

Books of Unique Pictures Limited Journal

| Date | Particulars | 2 | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|-----------------|------|--------------------------|---------------------------|
| | Equity Share Application A/c 5% Preference Share Application A/c To Equity Share Capital A/c To 5% Preference Share Capital A/c (Transfer of application money) | Dr. Dr. | | 30,000 20,000 | 30,000 20,000 |
| | Equity Share Allotment A/c 5% Preference Share Allotment A/c To Equity Share Capital A/c To 5% Preference Share Capital A/c (Amount due on allotment) | Dr. Dr. | | 45,000 30,000 | 45,000 30,000 |
| | Equity Share First Call A/c 5% Preference Share First Call A/c To Equity Share Capital A/c To 5% Preference Share Capital A/c (First call money due) | Dr. Dr. | | 37,500 25,000 | 37,500 25,000 |
| | Equity Share Second and Final Call A/c 5% Preference Share Second and final Call To Equity Share Capital A/c To 5% Preference Share Capital A/c (First call money due) | Dr. l A/cDr. | | 37,500 25,000 | 37,500 25,000 |
| | Call in Arrears A/c To Equity Share Second and Final Call To 5% Preference Share Final Call A/c (For Calls in Arrears) | Dr. A/c | | 750 | 250 500 |

Cash Book (Bank Column)

Dr. Cr.

| Date | Receipts | L.F. | Amount (Rs.) | Date | Payments | L.F. | Amount (Rs.) |
|------|---|------|-----------------|------|-------------|------|-----------------|
| | Equity Share Application A/c | | 30,000 | | Balance c/d | | 2,49,250 |
| | 5% Preference Share Application A/c | | 20,000 | | | | |
| | Equity Share Allotment A/c | | 45,000 | | | | |
| | 5% Preference Share Allotment A/c | | 30,000 | | | | |
| | Equity Share First Call A/c | | 37,500 | | | | |
| | 5% Preference Share First Call A/c | | 25,000 | | | | |
| | Equity Share Second and Final Call A/c | | 37,250 | | .\((| | |
| | 5% Preference Share Second and Final | | 24,500 | | (1.5) | | |
| | Call A/c | | | 2 | | | |
| | | | 2,49,250 | | | | 2,49,250 |

Balance Sheet of unique pictures as at

| Particulars | Note | Amount |
|--|------|----------|
| | No. | (Rs.) |
| I. Equity and Liabilities 1. Shareholders' Funds | | |
| a) Share capital | 1 | 2,49,250 |
| | | 2,49,250 |
| II. Assets | | |
| 1. Current assets | | |
| a) Cash and Cash Equivalents | 2 | 2,49,250 |
| | | 2,49,250 |

Notes to Accounts

| 1. Share Capital | |
|--|----------|
| Authorised Capital | |
| 30,000 Equity Shares of Rs. 10 each | 3,00,000 |
| 20,000 5% Preference Shares of Rs. 10 each | 2,00,000 |
| | 5,00,000 |
| <u>Issued Capital</u> | |
| 15,000 Equity Shares of Rs. 10 each | 1,50,000 |
| 10,000 5% Preference Shares of Rs. 10 each | 1,00,000 |
| | 2,50,000 |

| Subscribed Capital | | |
|--|----------|----------|
| Subscribed and fully paid-up | | |
| 14,900 Equity Shares of Rs. 10 each | 1,49,000 | |
| 9,800, 5% Preference Shares of Rs. 10 each | 98,000 | |
| | | 2,47,000 |
| Subscribed but not fully paid-up | | |
| 100 Equity Shares of Rs. 10 each | 1,000 | |
| Less: Calls in Arreras | -250 | 750 |
| | | 1 |
| 200, 5% Preference Shares of Rs. 10 each | 2,000 | |
| Less : Calls in Arrers | -500 | 1,500 |
| | | 2,49,250 |

Illustration 6

Rohit & Company issued 30,000 shares of Rs.10 each payable Rs.3 on application, Rs.3 on allotment and Rs.2 on first call after two months. All money due on allotment was received, but when the first call was made a shareholder having 400 shares did not pay the first call and a shareholder of 300 shares paid the money for the second and final call of Rs.2 which had not been made as yet.

Give the necessary journal entries in the books of the company.

Solution:

Books of Rohit & Company Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|-----|------|--------------------------|---------------------------|
| | Bank A/c To Share Application A/c (Application money received on 30,000 shares @ Rs.3 per share) | Dr. | | 90,000 | 90,000 |
| | Share Application A/c To Share Capital A/c (Application money transferred to share capital account) | Dr. | | 90,000 | 90,000 |
| | Share Allotment A/c To Share Capital A/c (Allotment money due on 30,000 shares @ Rs.3 per share) | Dr. | | 90,000 | 90,000 |
| | Bank A/c To Share Allotment A/c (Allotment money received) | Dr. | | 90,000 | 90,000 |

| Share First Call A/c | Dr. | 60,000 | |
|--|-------------|--------|--------|
| To Share Capital A/c | | | 60,000 |
| (First call money due on 30,000 share @ Rs.2 per share) | es | | |
| Bank A/c | Dr. | 59,800 | |
| Call in Arrears A/c | Dr. | 800 | |
| To Share First Call A/c | | | 60,000 |
| To Calls in Advance A/c | | | 600 |
| (Calls in arrears for 400 shares @Rs.2 and calls in advance on 300 shares @Rs.2 per share) | 2 per share | | |

Alternatively

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|------|--------------------------|---------------------------|
| | Bank A/c Dr. | | 59,200 | |
| | Calls in Arrears A/c Dr. To Share First Call A/c (Calls in arrears for 400 shares @ Rs. 2 per share) | | 800 | 60,000 |
| | Bank A/c Dr. To Calls in Advance A/c (Calls in advance on 300 shares @ Rs. 2 per share) | | 600 | 600 |

Do it Yourself

- 1. A company issued 20,000 equity shares of Rs.10 each payable Rs.3 on application, Rs.3 on allotment, Rs.2 on first call and Rs.2 on second and the final call. The allotment money was payable on or before May 01, 2015; first call money on or before August Ist, 2015; and the second and final call on or before October Ist, 2015; 'X', whom 1,000 shares were allotted, did not pay the allotment and call money; 'Y', an allottee of 600 shares, did not pay the two calls; and 'Z', whom 400 shares were allotted, did not pay the final call. Pass journal entries and prepare the balance sheet of the company.
- 2. Alfa Company Ltd. issued 10,000 shares of Rs.10 each for cash payable Rs.3 on application, Rs.2 on allotment and the balance in two equal instalments. The allotment money was payable on or before March 31, 2015; the first call money on or before 30 June, 2015; and the final call money on or before August, 31. 2015. Mr. 'A', to whom 600 shares were allotted, paid the entire remaining face value of shares allotted to him on allotment. Record journal entries in company's books and also exhibit the share capital in the balance sheet on the date.

1.6.3 Over Subscription

There are instances when applications for more shares of a company are received than the number offered to the public for subscription. This usually happens in respect of shares issue of well-managed and financially strong companies and is said to be a case of 'Over Subscription'.

In such a condition, three alternatives are available to the directors to deal with the situation: (1) they can accept some applications in full and totally reject the others; (2) they can make a pro-rata allotment to all; and (3) they can adopt a combination of the above two alternatives which happens to be the most common course adopted in practice.

The problem of over subscription is resolved with the allotment of shares. Therefore, from the accounting point of view, it is better to place the situation of over subscription within the total frame of application and allotment, i.e. receipt of application amount, amount due on allotment and its receipt from the shareholders, and the same has been observed in the pattern of entries.

First Alternative: When the directors decide to fully accept some applications and totally reject the others, the application money received on rejected applications is fully refunded. For example, a company invited applications for 20,000 shares and received the applications for 25,000 shares. The directors rejected the applications for 5,000 shares which are in excess of the required number and refunded their application money in full. In this case, the journal entries on application and allotment will be as follows:

The journal entries on application and allotment according to this alternative are as follows:

```
1
     Bank A/c
                                                Dr.
         To Share Application A/c
     (Money received on application for 25,000
     shares @ Rs. per share)
2
     Share Application A/c
                                                Dr.
         To Share Capital A/c
         To Bank A/c
     (Transfer of application for money 20,000 for
     shares allotted and money refunded on
     applications for 5,000 shares rejected)
3
     Share Allotment A/c
                                                Dr.
         To Share Capital A/c
     (Amount due on the allotment of 20,000
     shares @ Rs. per share)
4
                                                Dr.
     Bank A/c
         To Share Allotment A/c
     (Allotment money received)
```

Second Alternative: When the directors opt to make a proportionate allotment to all applicants (called 'pro-rata' allotment), the excess application money received is normally adjusted towards the amount due on allotment. In case, the excess application money received is more than the amount due on allotment of shares, such excess amount may either be refunded or credited to calls in advance.

For example, in the event of applications for 20,000 shares being invited and those received are for 25,000 shares, it is decided to allot shares in the ratio of 4:5 to all applicants. It is a case of pro-rata allotment and the excess application money received on 5,000 shares would be adjusted towards the amount due on the allotment of 20,000 shares. In this case, the journal entries on application and allotment will be as follows.

- 1 Bank A/c Dr.
 To Share Application A/c
 (Application money received on 25,000 shares
 @ Rs. _ per Share)
- 2 Share Application A/c Dr.
 To Share Capital A/c
 To Share Allotment A/c

(Transfer of application money to share capital and the excess application money on 5,000 shares credited to share allotment account)

- 3 Share Allotment A/c Dr.
 To Share Capital A/c
 (Amount due on allotment of 25,000 share
 @ Rs. per share)
- 4 Bank A/c Dr.
 To Share Allotment A/c
 (Allotment money received after adjusting the amount already received as excess application money)

Third Alternative: When the application for some shares are rejected outrightly; and pro-rata allotment is made to the remaining applicants, the money on rejected applications is refunded and the excess application money received from applicants to whom pro-rata allotment has been made is adjusted towards the amount due on the allotment of shares allotted.

For example, a company invited applications for 10,000 shares and received applications for 15,000 shares. The directors decided to reject the applications for 2,500 shares outright and to make a pro-rata allotment of 10,000 shares to the applicants for the remaining 12,500 shares so that four shares are allotted

for every five shares applied. In this case, the money on applications for 2,500 shares rejected would be refunded fully and that on the remaining 2,500 shares (12,500 shares – 10,000 shares) would be adjusted against the allotment amount due on 10,000 shares allotted and credited to share allotment account, the journal entries on application and allotment recorded as follows:

1 Bank A/c Dr.
To Share Application A/c
(Money received on application for 15,000 shares @ Rs. per share)

2 Share Application A/c

Dr.

Dr.

To Share Capital A/c To Share Allotment A/c To Bank A/c

(Transfer of application money to share capital, and the excess application amount of pro-rata allottees credited to share allotment and the amount on rejected applications refunded)

3 Share Allotment A/c Dr.
To Share Capital A/c
(Amount due on the Allotment of 10,000 shares @ Rs. _ per share)

4 Bank A/c

To Share Allotment A/c (Allotment money received after adjusting the amount already received as excess application money)

Illustration 7

Janta Papers Limited invited applications for 1,00,000 equity shares of Rs. 25 each payable as under:

On Application Rs. 5.00 per share
On Allotment Rs. 7.50 per share
On First Call Rs. 7.50 per share

(due two months after allotment)

On Second and Final Call Rs. 5.00 per share

(due two months after First Call)

Applications were received for 4,00,000 shares on January 01, 2017 and allotment was made on February 01, 2017.

Record journal entries in the books of the company to record these share capital transactions under each of the following circumstances:

- 1 The directors decide to allot 1,00,000 shares in full to selected applicants and the applications for the remaining 3,00,000 shares were rejected outright.
- 2 The directors decide to make a pro-rata allotment of 25 per cent of the shares applied for to every applicant; to apply the balance of application money towards amount due on allotment; and to refund the amount remaining thereafter.
- 3 The directors totally reject applications for 2,00,000 shares, accept full applications for 80,000 shares and make a pro-rata allotment of the 20,000 shares to remaining applicants and the excess application money is to be adjusted towards allotment and calls to be made.

Solution

Books of Janta Papers Limited Journal

First Alternative

| D ==4 = | Doubt out tour | 1 7 75 | D-1-14 | O 1:4 |
|-------------|---|--------|-----------|-----------|
| Date | Particulars | L.F. | Debit | Credit |
| | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| 2017 | | | | |
| January 01 | Bank A/c Dr. | | 20,00,000 | |
| | To Equity Share Application A/c | | | 20,00,000 |
| | (Money received on applications for 4,00,000 shares @ Rs. 5 per share) | | | |
| February 01 | Equity Share Application A/c Dr. | | 20,00,000 | |
| | To Equity Share Capital A/c | | | 5,00,000 |
| | To Bank A/c | | | 15,00,000 |
| | (Transfer of application money on 1,00,000 shares to share capital and money refunded on rejected applications) | | | |
| February 01 | Equity Share Allotment A/c Dr. | | 7,50,000 | |
| | To Equity Share Capital A/c | | | 7,50,000 |
| | (Amount due on the allotment of 1,00,000 shares @ Rs 7.50 per share) | | | |
| | Bank A/c Dr. | | 7,50,000 | |
| | To Equity Share Allotment A/c | | | 7,50,000 |
| | (Allotment money received) | | | |
| April 01 | Equity Share First Call A/c Dr. | 1 | 7,50,000 | |
| | To Equity Share Capital A/c | | | 7,50,000 |
| | (First call money due on 1,00,000 shares @ Rs. 7.50 per share) | | | |

| April 01 | Bank A/c Dr. To Equity Share First Call A/c (First call money received) | 7,50,000 | 7,50,000 |
|----------|--|----------|----------|
| June 01 | Equity Share Second and Final Call A/c Dr. To Equity Share Capital A/c (Final Call money due on 1,00,000 shares @ Rs. 5 per share) | 5,00,000 | 5,00,000 |
| June 01 | Bank A/c Dr. To Equity Share Second and Final Call A/c (Final call money received) | 5,00,000 | 5,00,000 |

Second Alternative

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|--------------------|--|------|--------------------------|----------------------------------|
| 2017 January 01 | Bank A/c Dr. To Equity Share Application A/c (Money received on applications for 4,00,000 shares @ Rs. 5 per share) | | 20,00,000 | 20,00,000 |
| February 01 | Equity Share Application A/c Dr. To Equity Share Capital A/c To Equity Share Allotment A/c To Bank A/c (Transfer of application money on Shares | | 20,00,000 | 5,00,000 7,50,000 7,50,000 |
| February 01 | allotted to share capital, excess application amount credited to allotment account and money refunded on rejected applications) Equity Share Allotment A/c Dr. To Equity Share Capital A/c (Amount due on the allotment of Rs. 1,00,000 shares @ Rs 7.50 per share) | - | 7,50,000 | 7,50,000 |

Note: The entries regarding the two calls would be the same as given in preceding method.

Third Alternative

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|--------------------|---|----------|--------------------------|---|
| 2017 January 01 | Bank A/c Dr. To Equity Share Application A/c (Money received on applications for 4,00,000 shares @ Rs. 5 per share) | | 20,00,000 | 20,00,000 |
| February 01 | Equity Share Application A/c Dr. To Equity Share Capital A/c To Equity Share Allotment A/c To Calls-in-Advance A/c To Bank A/c (Amount on share application adjusted to share capital, share allotment and calls in advance and the balance refunded including the money on rejected applications) | | 20,00,000 | 5,00,000 1,50,000 2,50,000 11,00,000 |
| February 01 | Equity Share Allotment A/c Dr. To Equity Share Capital A/c (Transfer of application money on shares allotted to share capital and amount due on the allotment of 1,00,000 shares @ Rs. 7.50 per share) | D | 7,50,000 | 7,50,000 |
| | Bank A/c Dr. To Equity Share Allotment A/c (Allotment money received) | | 6,00,000 | 6,00,000 |
| April 01 | Equity Share First Call A/c Dr. To Equity Share Capital A/c (First Call money due on 1,00,000 shares @ Rs. 7.50 per share) | | 7,50,000 | 7,50,000 |
| April 01 | Bank A/c Dr. Calls in Advance A/c Dr. To Equity Share First Call A/c (Calls-in-advance adjusted against first call and the balance money on call received) | | 6,00,000 1,50,000 | 7,50,000 |
| June 01 | Equity Share Second and Final Call A/c Dr. To Equity Share Capital A/c (Final Call money due on 1,00,000 shares @ Rs. 5 per share) | | 5,00,000 | 5,00,000 |

| June 01 | Bank A/c | Dr. | 4,00,000 | | |
|---------|--|-------------|----------|----------|--|
| | Calls in Advance A/c | Dr. | 1,00,000 | | |
| | To Equity Share Second and Fina | ıl Call A/c | | 5,00,000 | |
| | (Calls-in-advance adjusted against fir | nal call | | | |
| | and the balance money on call receive | ed) | | | |

Note: The balance of excess application money as a result of pro-rata distribution in journal entry 3 above is large enough to meet the demands on allotted shares in respect of the allotment and the two call money, as well as to leave an amount to be refunded along with that on the rejected applications.

Working Notes:

| | Rs. | Rs. |
|---|----------|----------------|
| Excess Application Money | | 15,00,000 |
| Less Transfers: | | |
| Share Allotment — | | 7, |
| 20,000 shares @ Rs. 7.50 | 1,50,000 | |
| Share Calls — | | |
| 20,000 shares @ Rs. 12.50 | 2,50,000 | $4,00,000^{1}$ |
| Amount to be refunded (including that on the rejected applications) | | 11,00,000 |

1.6.4 Under Subscription

Under subscription is a situation where number of shares applied for is less than the number for which applications have been invited for subscription. For example, a comapny offered 2 lakh shares for subscription to the public but the applications were received for 1,90,000 shares, only. In such a situation, the allotment will be confirmed to 1,90,000 shares and entries shall be made accordingly. However, as stated earlier, it must be ensured that the company has received the minimum subscriptions and the company will have to refund the entire subscription amount received.

1.6.5 Issue of Shares at a Premium

It is quite common for the shares of financially strong and well-managed companies to be issued at a premium, i.e. at an amount more than the nominal or par value of shares. Thus, when a share of the nominal value of Rs. 100 is issued at Rs. 105, it is said to have been issued at a premium of 5 per cent.

When the issue of shares is at a premium, the amount of premium may technically be called at any stage of the issue of shares. However, premium is generally called with the amount due on allotment, sometimes with the application money and rarely with the call money. The premium amount is credited to a separate account called 'Securities Premium Account' and is

shown under the title *'Equity and Liabilities'* of the company's balance sheet under the head *'Reserves and Surpluses'*. It can be used only for the following five purposes:

- (a) to issue fully paid bonus shares to the extent not exceeding unissued share capital of the company;
- (b) to write-off preliminary expenses of the company;
- (c) to write-off the expenses of, or commission paid, or discount allowed on any securities of the company; and
- (d) to pay premium on the redemption of preference shares or debentures of the company.
- (e) Purchase of its own shares (i.e., buy back of shares).

 The journal entries for shares issued at a premium are as follows:
- 1. For Premium Amount called with Application money
 - (a) Bank A/c Dr.

To Share Application A/c

(Money received on application for — shares @ Rs. — per share including premium)

(b) Share Application A/c

To Share Capital A/c

To Securities Premium Reserve A/c

(Transfer of application money to share capital and securities premium account)

- 2. Premium Amount called with Allotment Money
 - (a) Share Allotment A/c

Dr.

To Share Capital A/c

To Securities Premium Reserve A/c

(Amount due on allotment of shares @

Rs — per share including premium)

(b) Bank A/c Dr.

To Share Allotment A/c

(Allotment money received including premium)

- 3. Premium Amount called with Call Money
 - (a) Share Application A/c

To Share Capital Reserve A/c

To Securities Premium A/c

(Amount due on $I^{st}/2^{nd}$ call @Rs— per share including premium)

(b) Bank A/c

Dr.

To Share Call A/c

(Call money received including premium)

Jupiter Company Limited issued 35,000 equity shares of Rs. 10 each at a premium of Rs.2 payable as follows:

On Application Rs. 3

On Allotment Rs. 5 (including premium)

Balance on First and Final Call

The issue was fully subscribed. All the money was duly received.

Record journal entries in the books of the Company.

Solution:

Books of Jupiter Company Limited Journal

| | 0 0 41 1141 | | | | |
|------|--|-----|------|--------------------------|---------------------------|
| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
| | Bank A/c To Equity Share Application A/c (Money received on applications for 35,000 sh @ Rs. 3 per share) | Dr. | | 1,05,000 | 1,05,000 |
| | Equity Share Application A/c To Equity Share Capital A/c (Transfer of application money on allotment to share capital) | Dr. | | 1,05,000 | 1,05,000 |
| | Equity Share Allotment A/c To Equity Share Capital A/c To Securities Premium Reserve A/c (Amount due on allotment of 35,000 shares @Rs. 5 per share including premium) | Dr. | | 1,75,000 | 1,05,000 70,000 |
| | Bank A/c To Equity Share Allotment A/c (Money received including premium) | Dr. | | 1,75,000 | 1,75,000 |
| | Equity Share First and Final Call A/c To Equity Share Capital A/c (Amount due on First and Final Call of Rs. 4 per share on 35,000 shares) | Dr. | | 1,40,000 | 1,40,000 |
| | Bank A/c To Equity Share First and Final Call A/c (Money received on First and Final Call) | Dr. | | 1,40,000 | 1,40,000 |

1.6.6 Issue of Shares at a Discount

There are instances when the shares of a company are issued at a discount, i.e. at an amount less than the nominal or par value of shares, the difference between the nominal value and issue price representing discount on the issue of shares. For example, when a share of the nominal value of Rs. 100 is issued at Rs. 98, it is said to have been issued at a discount of two per cent.

As a general rule, a company cannot ordinarily issue shares at a discount. It can do so only in cases such as 'reissue of forfeited shares' (to be discussed later) and issue of sweat equity shares.

1.6.7 Issue of Shares for Consideration other than Cash

There are instances where a company enters into an arrangement with the vendors from whom it has purchased assets, whereby the latter agrees to accept, the payment in the form of fully paid shares of the company issued to them. Normally, no such cash is received for issue of shares. These shares can also be issued either at par, at premium or at discount, and the number of shares to be issued will depend upon the price at which the shares are issued and the amount payable to the vendor. The number of shares to be issued to the vendor will be calculated as follows:

Number of shares to be issued = Amount Payable

Issue Price

For example, Rahul Limited purchased building from Handa Limited for Rs.5,40,000 and the payment is to be made by the issue of shares of Rs.100 each. The number of shares to be issued shall be worked out as follows in different situations:

(a) When shares are issued at par. i.e., at Rs.100

(b) When shares issued at premium of 20%, i.e., at Rs. 120(100 + 20)

The journal entries recorded for the shares issued for consideration other than cash in above situations will be as follows:

Books of Rahul Limited

| | Gournar | | | | |
|------|---|-----|------|--------------------------|---------------------------|
| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
| | Building A/c To Handa Limited (Building purchased) | Dr. | | 5,40,000 | 5,40,000 |
| (a) | When shares are issued at par Handa Limited To Share Capital A/c (5,400 Shares issued at par) | Dr. | | 5,40,000 | 5,40,000 |
| (b) | When shares are issued at premium of 20% Handa Limited To Share Capital A/c To Securities Premium Reserve A/c (4,500 shares issued at Rs.120 per share) | Dr. | | 5,40,000 | 4,50,000 90,000 |
| | | | | | |

Illustration 9

Jindal and Company purchased a machine from High Life Machine Limited for Rs.3,80,000. As per purchase agreement, Rs. 20,000 were paid in cash and balance by issue of shares of Rs.100 each. What will be the entries passed if the shares are issued:

- (a) at par
- (b) at 20% premium

Solution:

Number of shares will be calculated as follows:

(a) When shares issued at par

$$\frac{\text{Rs. } 3,60,000}{\text{Rs.}100}$$
 = 3,600 shares

(b) When shares issued at premium $\frac{\text{Rs. } 3,60,000}{\text{Rs. } 120} = 3,000 \text{ shares}$

Books of Jindal and Company Journal

| Date | Particulars | | L.F. | Debit | Credit |
|-------------------|---|-----|------|----------|----------|
| | | | | Amount | Amount |
| | | | | (Rs.) | (Rs.) |
| | Machine A/c | Dr. | | 3,80,000 | |
| | To Bank A/c | | | | 20,000 |
| | To High Life Machine Limited | | | | 3,60,000 |
| | (Machine purchased and Rs. 20,000 paid in o | ash | | | |
| | and the balance paid by issue of share) | | | | |
| (a) | When shares are issued at par | | | | |
| | High Life Machine Limited | Dr. | | 3,60,000 | |
| | To Share Capital A/c | | | | 3,60,000 |
| | (3,600 Shares are Rs.100 each) | | | | |
| (l ₂) | W/b are ab area area isocrand at remove irre- | | | | |
| (b) | When shares are issued at premium | D., | | 2 60 000 | |
| | High Life Machine Limited | Dr. | | 3,60,000 | 2 00 000 |
| | To Share Capital A/c | | | | 3,00,000 |
| | To Securities Premium Reserve A/c | | | | 60,000 |
| | (3,000 shares issued at Rs. 120 per share) | | | | |

Test your Understanding - II

Choose the correct answer.

- (a) Equity shareholders are:
 - (i) creditors
 - (ii) owners
 - (iii) customers of the company
 - (iv) none of the above
- (b) Nominal share capital is:
 - (i) that part of the authorised capital which is issued by the company.
 - (ii) the amount of capital which is actually applied for by the prospective shareholders.
 - (iii) the maximum amount of share capital which a company is authorised to issue.
 - (iv) the amount actually paid by the shareholders.
- (c) Interest on calls in arrears is charged according to "Table F" at:
 - (i) 10%
 - (ii) 6%
 - (iii) 8%
 - (iv) 11%
- (d) Money received in advance from shareholders before it is actually called-up by the directors is :
 - (i) debited to calls in advance account
 - (ii) credited to calls in advance account

- (iii) debited to calls account
- (iv) none of the above
- (e) Shares can be forfeited:
 - (i) for non-payment of call money
 - (ii) for failure to attend meetings
 - (iii) for failure to repay the loan to the bank
 - (iv) for which shares are pledged as a security
- (f) The Profit on reissue of forfeited shares is transferred to:
 - (i) general reserve
 - (ii) capital redemption reserve
 - (iii) capital reserve
 - (iv) reveneue reserve
- (g) Balance of share for feiture account is shown in the balance sheet under the item:
 - (i) current liabilities and provisions
 - (ii) reserves and surpluses
 - (iii) share capital
 - (iv) unsecured loans

Private Placement of Shares

The Companies Act, 2013 (Section 42)describes Private Placement as an offer of securities or invitation to subscribe securities to a select group of persons through issue of private placement offer letter.

Employees Stock Option Plan (ESOP)

A company may offer option to its employees and employee directors to subscribe shares of the company at lower than its market value or fair value at a future date. It is known as Employees Stock Option Plan (ESOP). It being an option granted by the company, an employee may or may not exercise the right to subscribe.

Employees Stock Option Plan falls in the category of Sweat Equity, Sweat Equity being a wider.

A company issuing the options has to fulfil following prescribed conditions:

- (a) these shares are of the same class of shares already issued;
- (b) it is authorised by a special resolution passed by the company;
- (c) the resolution specifies the number of shares, the current market price, consideration, if any, and the class or classes of directors or employees to whom such equity shares are to be issued;
- (d) not less than one year has, at the date of issue, elapsed since the date on which the company had commenced business; and
- (e) these shares are issued in accordance with SEBI regulations, if the shares are listed.

Important Terms of ESOP

Grant: Grant means giving an option to the Employees to subscribe to the shares of the company at the pre-determined price.

Dr.

Grant Date: It is the date of agreement between the enterprise and its employees to the terms of Employees Stock Option Plan (ESOP).

Vesting: A process to give right to employees to apply for shares of the company.

Vesting Date: It is the date on which the employee becomes entitled to apply for the shares once he has satisfied the vesting conditions.

Vesting Period: The period between the grant date and the date on which all the specified vesting conditions of an Employees Stock Option Plan (ESOP) need to be satisfied.

Exercise: It means applying by the employee for issue of shares against the option vested in him.

Exercise Period: Period after vesting within which the employee must exercise the right to apply for shares against the option vested in him in pursuance of the Employees Stock Option Plan.

Exercise Price: The price payable by the employee for exercising the option granted in pursuance of the Employees Stock Option Plan.

Value of Option :Difference between the market price and the issue price of the security.

1.7 Forfeiture of Shares

It may happen that some shareholders fail to pay one or more instalments, viz. allotment money and/or call money. In such circumstances, the company can forfeit their shares, i.e. cancel their allotment and treat the amount already received thereon as forfeited to the company within the framework of the provisions in its articles. These provisions are usually based on Table F which authorise the directors to forefeit the shares for non-payment of calls made. For this purpose, they have to strictly follow the procedure laid down in this regard. Following is the accounting treatment of shares issued at par, premium or at a discount. When shares are forefeited all entries relating to the shares forfeited except those relating to premium, already recorded in the accounting records must be reversed. Accordingly, share capital account is debited with the amount called-up in respect of shares are forfeited and crediting the respective unpaid calls accounts's or calls in arrears account with the amount already received. Thus, the journal entry will be as follows:

```
(a) Forfeiture of Shares issued at Par:
```

Share Capital A/c......(Called up amount)

To Share Forfeiture A/c.....(Paid up amount)

To Share Allotment A/c

To Share Calls A/c (individually)

(..... shares forfeited for non-payment of allotment money and calls made)

It may be noted here that when the shares are forfeited, all entries relating to the forfeited shares must be reversed except the entry relating to share premium received, if any. Accordingly, the share capital is debited to the extent to called-up capital and credited to (i) respective unpaid calls account i.e., calls in arrears and (ii) share forfeiture account with the amount already received on shares.

The balance of shares forfeited account is shown as an addition to the total paid-up capital of the company under the head 'Share Capital' under title 'Equity and Liabilities' of the Balance Sheet till the forfeited shares are reissued.

Illustration 10

Honda Limited issued 10,000 equity shares of 100 each payable as follows: Rs. 20 on application, Rs. 30 on allotment, Rs. 20 on first call and Rs. 30 on second and final calls 10,000 shares were applied for and allotted. All money due was received with the exception of both calls on 300 shares held by Supriya. These shares were forfeited. Give necessary journal entries.

Solution

Books of Honda Limited Journal

| Date | Particulars | | L.F. | Debit | Credit |
|------|--|-----|------|----------|----------|
| | | | | Amount | Amount |
| | | | | (Rs.) | (Rs.) |
| | Bank A/c | Dr. | | 2,00,000 | |
| | To Equity Share Application A/c | | | | 2,00,000 |
| | (Application money on 10,000 shares @Rs.20 per share received) | | | | |
| | Share Application A/c | Dr. | [| 2,00,000 | |
| | To Equity Share Capital A/c | | | | 2,00,000 |
| | (Application money transferred to share capital) | | | | |
| | Share Allotment A/c | Dr. | | 3,00,000 | |
| | To Equity Share Capital A/c | | | | 3,00,000 |
| | (Money due on allotment of 10,000 shares @Rs. 30 per share) | | | | |
| | Bank A/c | Dr. | Ī | 3,00,000 | |
| | To Equity Share Allotment A/c | | | | 3,00,000 |
| | (Allotment Money received on 10,000 shares @ Rs. 30 per share on) | | | | |

| Share First Call A/c To Equity Share Capital A/c (Money due on 10,000 shares @ Rs. 20 per share on Ist Call) | Dr. | 2,00,000 | 2,00,000 |
|---|---------------|----------|--------------------------|
| Bank A/c To Equity Share First Call A/c (First call money received except for 300 sh | Dr. nares) | 1,94,000 | 1,94,000 |
| Share Second and Final Call A/c To Equity Share Capital A/c (Money due on 10,000 shares @ Rs. 30 per share on Second and Final Call) | Dr. | 3,00,000 | 3,00,000 |
| Bank A/c To Equity Share Second and Final Call (Second and Final Call money received exc for 300 shares) | · | 2,91,000 | 2,91,000 |
| Share Capital A/c To Equity Share First Call A/c To Equity Share Second and Final Call To Share Forfeiture A/c (300 shares forfeited) | Dr. | 30,000 | 6,000 9,000 15,000 |

Forfeiture of Shares issued at a Premium: If shares were initially issued at a premium and the premium amount has been fully realised, but some of the shares are forfeited due to non-payment of call money, the accounting treatment for forfeiture shall be on the same pattern as in the case of shares issued at par. The important point to be noted in this context is that the securities premium account is not to be debited at the time of forfeiture if the premium has been received in respect of the forefeited shares and the amount of forfeiture shall be excluding premium amount.

In case, however, if the premium amount has not been received, either wholly or partially, in respect of the shares forfeited, the Securities Premium Reserve Account will also be debited with the amount of premium not received along with the Share Capital Account at the time forfeiture. This will usually be the case when even the amount due on allotment has not been received. Thus, the journal entry to record the forfeiture of shares issued at a premium on which premium has not been fully received, will be:

Share Capital A/c Dr.
Securities Premium Reserve A/c Dr.
To Share Forfeiture A/c

To Share Allotment A/c
and/or
To Share Calls A/c (individually)
(..... shares forefeited for non-payment of allotment money and calls made)

Note: If Calls in Arrears Account is maintained, Calls in Arrears Account is credited and not the Share Allotment and/or Share Call/Calls Accounts.

Illustration 11

Sahil, a share holder, failed to pay the money for second and final call of Rs. 20 on 1,000 shares issued to him at Rs. 120 (face value of Rs. 100 per share). His shares were forfeited after the second and final call. Give the necessary journal entry for forefeiture of the shares.

Solution:

| Date | Particulars | | L.F. | Debit | Credit |
|------|---|-----|------|----------|--------|
| | | | | Amount | Amount |
| | | | | (Rs.) | (Rs.) |
| | Share Capital A/c | Dr. | | 1,00,000 | |
| | To Share second and Final Call A/c | | | | 20,000 |
| | To Share Forfeiture A/c | | | | 80,000 |
| | (Forfeiture of 1,000 shares for non-payment of the second and final call) | | | | |

Illustration 12

Sunena, a shareholder holding 500 shares of Rs. 10 each, did not pay the allotment money of Rs. 4 per share (including a premium of Rs. 2) and the first and final call of Rs. 3. Her shares were forfeited after the first and final call. Give journal entry for forefeiture of the shares.

Solution:

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|------------------|------|--------------------------|---------------------------|
| | Share Capital Reserve A/c Securities Premium A/c To Share Allotment A/c To Share first and final Call A To Share Forfeiture A/c (Forfeiture of 500 shares for non-payment of first and final call) | Dr. Dr. /c | | 5,000 1,000 | 2,000 1,500 2,500 |

Ashok Limited issued 3,00,000 equity shares of Rs. 10 each at a premium of Rs. 2 per share, payable as Rs. 3 on application, Rs. 5 on allotment (including premium) and the balance in two calls of equal amount.

Applications were received for 4,00,000 shares and pro-rata allotment was made to all the applicants. The excess application money was adjusted towards allotment. Mukesh who was allotted 800 shares failed to pay both the calls and his shares were forfeited after the second call. Record necessary journal entries in the books of Ashok Limited and also show the balance sheet.

Solution:

Books of Ashok Limited

| ate | Particulars | | L.F. | Debit | Credit |
|-----|---|-----|------------|-----------|-----------|
| | | | | Amount | Amount |
| | | | * _ | (Rs.) | (Rs.) |
| | Bank A/c | Dr. | | 12,00,000 | |
| | To Equity Share Application A/c | | | Ť | 12,00,000 |
| | (Application money received on | | | | |
| | 4,00,000 shares) | | Ĭ | | |
| | Describes Classes Associations A./- | Dr. | † | 10 00 000 | |
| | Equity Share Application A/c | Dr. | | 12,00,000 | 0 00 000 |
| | To Equity Share Capital A/c | | | | 9,00,000 |
| | To Equity Share Allotment A/c | | | | 3,00,000 |
| | (Application money on 3,00,000 shares trans | | | | |
| | to share capital account and the excess amo | unt | | | |
| | adjusted to share allotment account) | | | | |
| | Equity Share Allotment A/c | Dr. | Ī | 15,00,000 | |
| | To Equity Share Capital A/c | | | | 9,00,000 |
| | To Securities Premium Reserve A/c | | | | 6,00,000 |
| | (Allotment money due on 3,00,000 shares) | | | | |
| | Bank A/c | Dr. | t | 12,00,000 | |
| | To Equity Share Allotment A/c | DI. | | 12,00,000 | 12,00,000 |
| | (Allotment amount received after adjusting | | | | 12,00,000 |
| | excess money received with application) | | | | |
| | Equity Share First Call A/c | Dr. | 1 | 6,00,000 | |
| | To Equity Share Capital A/c | | | | 6,00,000 |
| | (First Call amount due on 3,00,000 shares) | | | | |
| | | | | | |
| | | | | | |

| Bank A/c | Dr. | 5,98,400 | |
|--|--------|----------|----------|
| Calls in Arrears A/c | Dr. | 1,600 | |
| To Equity Share First Call A/c | | | 6,00,000 |
| (First Call amount received on 2,99,200 sl | nares) | | |
| Equity Share Second and Final Call A/c | Dr. | 6,00,000 | |
| To Equity Share Capital A/c | | | 6,00,000 |
| (Second Call amount due on 3,00,000 Sha | ares) | | |
| Bank A/c | Dr. | 5,98,400 | |
| Calls in Arrears A/c | Dr. | 1,600 | |
| To Equity Share Second and Final Call | A/c | | 6,00,000 |
| (Amount on 2,99,200 shares received) | | | |
| Equity Share Capital A/c | Dr. | 8,000 | |
| To Share Forfeiture A/c | | | 4,800 |
| To Call in Arrears A/c | | | 3,200 |
| (Forfeiture of 800 shares) | > | | |

Balance Sheet of Ashok Limited as on

| Particulars | | Note No. | Amount (Rs.) |
|---------------------------|---------|----------|--------------|
| I EQUITY AND LIABILITIES | 10, 70, | | |
| 1. Shareholders' Funds | | | |
| (a) Share Capital | ,(/, | 1 | 29,96,800 |
| (b) Reserves and Surplus | | 2 | 6,00,000 |
| | | | 35,96,800 |
| II ASSETS | | | |
| 1.Current Assets | | | |
| Cash and Cash Equivalents | | 3 | 35,96,800 |
| | | | 35,96,800 |
| | | I | |

Notes to Accounts

| 1. Share Capital | (Rs.) |
|---------------------------------------|-----------|
| Authorised Capital | |
| Equity shares of Rs. 10 each | |
| | |
| Issued Capital | |
| 3,00,000 Equity shares of Rs. 10 each | 30,00,000 |
| | |

| Subscribed Capital Subscribed and Fully Paid-up 2,99,200 Equity shares of Rs. 10 each | 29,92,000 |
|---|--------------------|
| Add: Share forfeiture accounts | 4,800 29,96,800 |
| 2. Reserves and Surplus | |
| Securities Premium Reserve | 6,00,000 |
| 3. Cash and Cash Equivalents Cash at bank | 35,96,800 |

High Light India Ltd. invited applications for 30,000 Shares of Rs. 100 each at a premium of Rs. 20 per share payable as follows:

On Application Rs. 40 (including Rs. 10 premium)
On Allotment Rs. 30 (including Rs. 10 premium)

On First Call Rs. 30
On Second and Final Call Rs. 20

Applications were received for 40,000 shares and pro-rata allotment was made on the application for 35,000 share. Excess application money was utilised towards allotment.

Rohan to whom 600 shares were allotted failed to pay the allotment money and his shares were forfeited immediately after allotment.

Aman who applied for 1,050 shares failed to pay first call and his share were forfeited immediately after first Call.

Second and final call was made. All the money due on second call have been received.

Of the shares forfeited, 1,000 share were reissued as fully paid-up for Rs. 80 per share, which included the whole of Aman's shares.

Record necessary journal entries in the books of High Light India Ltd.

Solution:

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|------------|------|--------------------------|----------------------------------|
| | Bank A/c To Share Application A/c (Application money received on 40,000 share | Dr. | | 16,00,000 | 16,00,000 |
| | Share Application A/cDr. To Share Capital A/c To Securities Premium Reserve A/c To Share Allotment A/c (Application money transferred to share capital account, securities premium account and the excess money transfered to share allotment account. | ount) | 14, | 00,000 | 9,00,000 3,00,000 2,00,000 |
| | Share Application A/cDr. To Bank A/c (Amount returned on 500 shares) | | 2,0 | 0,000 | 2,00,000 |
| | Share Allotment A/c To Share Capital A/c To Securities Premium Reserve A/c (Money due on allotment) | Dr. | Ó, | 9,00,000 | 6,00,000 3,00,000 |
| | Bank A/c To Share Allotment A/c (Amount received in allotment) | Dr. | | 6,86,000 | 6,86,000 |
| | Share Capital A/c Securities Premium Reserve A/c To Share Allotment A/c To Share Forfeiture A/c (Forfeiture of 600 shares of Rohan for non-payment of allotment money) | Dr. Dr. | | 30,000 6,000 | 14,000 22,000 |
| | Share First Call A/c To Share Capital A/c (First Call money due on 29,400 shares) | Dr. | | 8,82,000 | 8,82,000 |
| | Bank A/c To Share First Call A/c (First call money received on 28,500 shares) | Dr. | | 8,55,000 | 8,55,000 |

| Share Capital A/c To Share First Call A/c To Share Forfeiture A/c (Forfeiture of 900 shares of Aman) | Dr. | 72,000 | 27,000 45,000 |
|---|-------------|------------------|------------------|
| Share Second and Final Call A/c To Share Capital A/c (Second and Final Call money due on 28,5 | Dr. | 5,70,000 | 5,70,000 |
| Bank A/c To Share Second and Final Call A/c (Due money received) | Dr. | 5,70,000 | 5,70,000 |
| Bank A/c Share Forfeiture A/c To Share Capital A/c (Reissue of 1,000 forfeited shares) | Dr. Dr. | 80,000 20,000 | 1,00,000 |
| Share Forfeiture A/c To Capital Reserve (Profit on 1,000 reissued shares transferre capital reverve) | Dr. d to | 28,667 | 28,667 |

Working Notes:

(I) Excess amount received on Rohan's application

Rohan has been alloted = 600 Shares

| He must have applied for $\frac{\text{Rs. 3}}{\text{Rs. 3}}$ | $\frac{35,000}{30,000}$ × | 600 | 700 Shares |
|--|---------------------------|--------|-------------------|
| ~ () | | | Rs. |
| Amount received from Rohan | = 700 | Rs. 40 | 28,000 |
| Amount Adjusted on Application | = 600 | Rs. 40 | (24,000) |
| Amount Adjusted on Allotment | | | 4,000 |
| Money due on Allotment Money Adjusted | = 600 | Rs. 30 | 18,000 (4,000) |
| Balance due on Allotment | | | 14,000 |

(II) Amount recieved on allotment

| Total Amount due on Allotment = Rs. 30,000 Amount received on Application | Rs. 30 | = 9,00,000 (2,00,000) |
|--|--------|--------------------------|
| | | 7,00,000 |
| Amount not received on Rohan's Share | | (14,000) |
| | | 6,86,000 |

(III) Money received on First Call

First Call money due on 29,400 shares 29,400 Rs. 30 = 8,82,000 Application money not received on 900 Shares 900 Rs. 30 (27,000) 8,55,000

(IV) 1000 shares have been reissued including 900 shares of Aman and Balance 100 shares of Rohan

Gain on 100 shares =
$$\frac{22,000}{600} \times 100$$
 = 3,667
Gain in 900 shares = $\frac{45,000}{48,667}$
Less: Loss on reissue of 1,000 shares (20,000)
Transferred to Capital Reserve 28,667

(V) Balance in Share Forfeiture Account of 500 shares

Rs.
$$\frac{22,000}{600} \times 500$$
 = Rs. 18,333

Do it Yourself

- 1. A company forfeited 100 equity shares of Rs.10 each issued at a premium of 20% for non-payment of final call of Rs.5 including the premium. Show the journal entry for forefeiture of shares.
- 2. A company forfeited 800 equity shares of Rs.10 each issued at a discount of 10% for non-payment of first and final calls of Rs.2 each. Calculate the amount forfeited by the company and pass the journal entry for forefeiture of the shares.

X Ltd. issued for public subscription 40,000 equity shares of Rs. 10 each at premium of Rs. 2 per share payable as under:

On application Rs. 4 per share

On Allotment Rs. 5 per share (including premium)

On Call Rs. 3 per share

Applications were received for 60,000 shares. Allotment was made pro-rata to the applicants for 48,000 shares, the remaining applications being rejected. Money overpaid on application was applied towards sums due on allotment.

Shri Chitnis, to whom 1,600 shares were allotted, failed to pay the allotment money and Shri Jagdale, to whom 2,000 shares were allotted, failed to pay the call money. These shares were subsequently forfeited.

Record journal entries in the books of the company to record the above transactions.

Solution:

Books of X Ltd. Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|-----|------|--------------------------|------------------------------|
| | Bank A/c To Equity Share Application A/c (Money received on applications for 60,000 shares @ Rs. 4 per share) | Dr. | | 2,40,000 | 2,40,000 |
| | Equity Share Application A/c To Equity Share Capital A/c To Equity Share Allotment A/c To Bank a/c (Application amount transferred to share capital, excess application money under pro-rata distribution credited to share allotment and money refunded on rejected application) | Dr. | | 2,40,000 | 1,60,000 32,000 48,000 |

| Dr. | 2,00,000 | 1,20,000 80,000 |
|------------|---------------------|---|
| Dr. Dr. | 1,61,280 6,720 | 1,68,000 |
| Dr. | 1,20,000 | 1,20,000 |
| Dr. Dr. | 1,09,200 10,800 | 1,20,000 |
| Dr. Dr. | 36,000 3,200 | 21,680 |
| | Dr. Dr. Dr. Dr. Dr. | Dr. 1,61,280 6,720 Dr. 1,20,000 Dr. 1,09,200 10,800 Dr. 36,000 |

Working Notes:

I.

| Am | ount received on allotment | Rs. |
|-----|--|-----------------|
| (a) | Amount due on allotment | 2,00,000 |
| | 40,000 shares Rs. 5 per share | |
| (b) | Amount actually due on allotment | 2,00,000 |
| | Amount due on allotment | |
| | Less Excess Application amount applied for allotment | <u>32,000</u> |
| | | |
| | Amount actually due | <u>1,68,000</u> |
| | | |
| (c) | Allotment amount due from Chitnis | |
| | Allotment money due on Chitnis's share | |
| | 1,600 shares Rs. 5 per share | 8,000 |
| | Less excess application money paid | |
| | Due to pro-rata distribution – | |
| | (1,920 shares – 1,600 shares) 320 4 | 1,280 |
| | Allotment amount due from Chitnis | 6,720 |

According to the ratio of pro-rata distribution (40,000 shares : 48,000 shares), for 1,600 shares to be allotted, Chitnis must have applied for 1,920 shares (1,600 shares 6/5).

(d) Allotment money received

(Amount actually due on Allotment) 1,68,000

Less Amount unpaid by Chitnis (6,720)

Amount received 1.61.280

II. Balance on Shares Forfeited Account

Amount paid by Chitnis:

1,920 Shares applied for Rs. 4 per share 7,680

Amount paid by Jagdale:

2,000 Shares (Rs. 4 + Rs. 3) Rs.7 per share 14,000

Total balance 21,680

Note: Premium amount on Jagdale's shares will not be taken into account as it has been received in full by the company.

1.7.1 Reissue of Forfeited Shares

The directors can either cancel or re-issue the forefeited shares. In most cases, they reissue such shares which may be at par, at premium or at a discount. Forfeited shares may be reissued as fully paid at a par, premium, discount. In this context, it may be noted that the amount of discount allowed cannot exceed the amount that had been received on forfeited shares at the time of initial issue, and that the discount allowed on reissue of forfeited shares should be debited to the 'Forfeited Share Account'. The balance, if any, left in the Share-Forfeited Account relating to reissued Shares, should be treated as capital profit and transferred to Capital Reserve Account. For example, when a company forfeits 200 shares of Rs. 10 each on which Rs. 600 had been received, it can allow a maximum discount of Rs. 600 on their reissue. Assuming that the company reissues these shares for Rs. 1,800 as fully paid, the necessary journal entry will be:

Bank A/c Dr. 1,800 Share Forfeiture A/c Dr. 200

To Share Capital A/c 2,000

(Reissue of 200 forfeited shares at Rs. 9 per share as fully paid)

This shall leave a balance of Rs. 400 in share forfeited account which should be transferred to Capital Reserve Account by recording the following journal entry:

Share Forfeiture A/c Dr. 400

To Capital Reserve 400

(Profit on reissue of forfeited shares transferred)

Another important point to be noted in this context is that the capital profit arises only in respect of the forefited share reissued, and not on all forefeited shares. Hence, when a part of the forfeited shares are reissued, the whole balance of share forfeiture account cannot be transferred to the capital reserve. In such a situation, it is only the proportionate amount of balance that relates to the forefeited shares reissued which should be transferred to capital reserve, ensuring that the remaining balance in share forefeiture account is proportionate to the amount forefeited on shares not yet reissued.

Illustration 16

The director of Poly Plastic Limited resolved that 200 equity shares of Rs.100 each be forfeited for non-payment of the second and final call of Rs.30 per share. Out of these, 150 shares were re-issued at Rs.60 per share to Mohit.

Show the necessary journal entries.

Solution:

Books of Poly Plastic Limited Journal

| Date | Particulars | | L.F. | Debit | Credit |
|------|---|-----|------|-----------------|-----------------|
| | | | | Amount (Rs.) | Amount (Rs.) |
| | Share Capital A/c | Dr. | | 20,000 | |
| | To Shares Forfeiture A/c | | | | 14,000 |
| | To Share Second and Final Call A/c | | | | 6,000 |
| | (200 shares forfeited for non-payment of final call at Rs.30 per share) | | | | |
| | Bank A/c | Dr. | | 9,000 | |
| | Shares Forfeiture A/c | Dr. | | 6,000 | |
| | To Share Capital A/c | | | | 15,000 |
| | (Reissue of 150 shares of Rs.100 each, issued as fully paid for Rs.60 each) | | | | |
| | Shares Forfeiture A/c | Dr. |] | 4,500 | |
| | To Capital Reserve A/c | | | | 4,500 |
| | (Profit on reissue of 150 forfeited shares transferred to capital reserve) | | | | |

Working Notes:

Rs. Total amount forfeited on 200 shares = 14,000 (200 shares × Rs. 70) Amount forfeited on 150 shares = 10,500 (150 shares × Rs. 70) Amount of loss on reissue of 150 shares = 6,000 (150 shares × Rs. 40)

```
Amount of profit on reissued shares
transferred to capital reserve = 4,500 (Rs. 10,500 - Rs. 6,000)
Amount forfeited on 50 shares = 3,500 (50 shares × Rs. 70)
Balance left in share forfeited account
(equal to amount forfeited on 50 shares) = 3,500 (Rs. 14,000 - Rs. 6,000)
- Rs. 4,500)
```

On January 1, 2015, the Director of X Ltd. issued for public subscription 50,000 equity shares of Rs. 10 each at Rs. 12 per share payable as to Rs. 5 on application (including premium), Rs. 4 on allotment and the balance on call on May 01, 2015.

The lists were closed on February 10, 2015 by which date applications for 70,000 shares were received. Of the cash received Rs. 40,000 was returned and Rs.60,000 was applied to the amount due on allotment, the balance of which was paid on February 16, 2015.

All the shareholders paid the call due on May 01, 2015 with the exception of an allottee of 500 shares.

These shares were forfeited on September 29, 2015 and reissued us fully paid at Rs. 8 per share on November 01, 2015.

The company, as a matter of policy, does not maintain a calls-in-arrears account.

Give journal entries to record these share capital transactions in the books of X. Ltd.

Solution:

Book of X. Ltd.
Journal

| Date | Particulars | | L.F. | Debit | Credit |
|--------|--|-----|------|----------|----------|
| 2015 | | | | Amount | Amount |
| | | | | (Rs.) | (Rs.) |
| Feb.10 | Bank A/c | Dr. | | 3,50,000 | |
| | To Equity Share Application A/c | | | | 3,50,000 |
| | (Amount received on application for | | | | |
| | 70,000 shares @ Rs. 5 per share | | | | |
| | Including Premium) | | | | |
| Feb.16 | Equity Share Application A/c | Dr. | 1 | 2,50,000 | |
| | To Equity Share Capital A/c | | | | 1,50,000 |
| | To Securities Premium Reserve A/c | | | | 1,00,000 |
| | (Transfer of application money on 50,000 | | | | |
| | shares to share capital and premium | | | | |
| | accounts consequent upon allotment) | | | | |

| Feb.16 | Equity Share Application A/c To Bank A/c To Equity Share Allotment A/c (Excess application money credited to share allotment and money refunded on rejected application) | Dr. | 1,00,000 | 40,000 60,000 |
|----------|--|------------|----------------|------------------|
| Feb.16 | Equity Share Allotment A/c To Equity Share Capital A/c (Amount due on allotment of 50,000) Shares @ Rs. 4 per share) | Dr. | 2,00,000 | 2,00,000 |
| Feb.16 | Bank A/c To Equity Share Allotment A/c (Money received on allotment) | Dr. | 1,40,000 | 1,40,000 |
| May 1 | Equity Share First and Final Call A/c To Equity Share Capital A/c (First call money due) | Dr. | 1,50,000 | 1,50,000 |
| May 1 | Bank A/c To Equity Share First and Final Call A/c (Money received on first call) | Dr. | 1,48,500 | 1,48,500 |
| Sept. 29 | Equity Share Capital A/c To Shares Forfeiture A/c To Equity Share First and Final Call A/c (Forfieted of 500 shares for non-payment of | | 5,000 | 3,500 1,500 |
| Nov. 1 | Bank A/c Shares Forfeiture A/c To Equity Share Capital A/c (Reissue of 500 forfeited shares as fully paid at Rs. 8 per share) | Dr. Dr. | 4,000 1,000 | 5,000 |
| Nov. 1 | Shares Forfeiture A/c To Capital Reserve (Profit on reissue of Forfeited Shares Account transferred to capital reserve) | Dr. | 2,500 | 2,500 |

O Limited issued a prospectus offering 2,00,000 equity shares of Rs. 10 each, at a premium of Rs. 2 per share, payable as follows:

On Application Rs. 2.50 per share On Allotment Rs. 4.50 per share (including premium)

On First Call (three months from allotment) Rs. 2.50 per share On Second Call (three months after first call) Rs. 2.50 per share Subscriptions were received for 3,17,000 shares on April 23, 2017 and the allotment made on April 30, was as under:

| | | Shares Allotted |
|-------|--|-----------------|
| (i) | Allotment in full (two applicants paid in | 38,000 |
| | full on allotment in respect of 4,000 shares each) | |
| (ii) | Allotment of two shares for every | 1,60,000 |
| | three shares applied for | |
| (iii) | Allotment of one share for every | 2,000 |
| | four shares applied for | |

Cash amounting to Rs. 77,500 (being application money received with applications on 31,000 shares upon which no allotments were made) was returned to applicants on May 6, 2017.

The amounts called from the allottees were received on the due dates with the exception of the final call on 100 shares. These shares were forfeited on November 15, 2017 and reissued to Aman on November 16 for payment of Rs. 9 per share.

Record journal entries other than those relating to cash, in the books of O Limited, and also show how to transaction would appear in the balance sheet assuming that the company paid interest due from it on October 31, 2017.

Solution:

Books of O Limited Journal

| Date | Particulars | L.F. | Debit | Credit |
|----------|--|-------|----------|----------|
| | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| 2017 | Share Application A/cDr. | 7,92, | 000 | |
| April 30 | To Equity Share Capital A/c | | | 5,00,000 |
| | To Bank | | | 77,500 |
| | To Equity Share Allotment A/c | | | 2,09,000 |
| | To Calls in Advance | | | 6,000 |
| | (Transfer of Application Money to share | | | |
| | capital after allotment and excess application | | | |
| | money on 86,000 shares due to pro-rata | | | |
| | allotment credited to share allotment and | | | |
| | calls in advance) | | | |
| April 30 | Equity Share Allotment A/c Dr. |] | 9,00,000 | |
| | To Equity Share Capital A/c | | | 5,00,000 |
| | To Securities Premium Reserve A/c | | | 4,00,000 |
| | (Allotment amount due on 2,000,000 | | | |
| | shares @ Rs. 4.50 per share including premium) | | | |

| July 31 | Equity Share First Call A/c To Equity Share Capital A/c (First call money due on 2,00,000 shares @ Rs. 2.50 per share) | Dr. | 5,00,000 | 5,00,000 |
|---------|---|------------|----------|------------------|
| July 31 | Calls in Advance A/c To Equity Share First Call A/c (Calls in advance adjusted) | Dr. | 25,000 | 25,000 |
| Oct. 31 | Equity Share Second and Final Call A/c To Equity Share Capital A/c (Second call money due on 2,00,000 shares @ Rs. 2.50 per share) | Dr. | 5,00,000 | 5,00,000 |
| Oct. 31 | Calls in Advance A/c Calls in Arrears A/c To Equity Share Second and Final Call A/c (Calls in advance on 8,000 shares adjusted against second call money due) | Dr. Dr. | 250 | 21,000 21,250 |
| Nov. 15 | Equity Share Capital A/c To Calls in Arrears A/c To Share Forfeiture A/c (Forfeiture of 100 shares for the non-paymen of call money) | Dr. | 1,000 | 250 750 |
| Nov. 16 | Share Forfeiture A/c To Equity Share Capital A/c (Amount due from A for the reissue of 100 shares as fully paid at Rs. 9 per share) | Dr. | 100 | 100 |
| Nov. 16 | Share Forfeiture A/c To Capital Reserve (Profit on reissue of forfeited Shares transferr to Capital reserve) | Dr. ed | 650 | 650 |

Cash Book

Dr. Cr.

| Receipts | Amount (Rs.) | Payments | Amount (Rs.) |
|--------------------------|-----------------|---------------------------|-----------------|
| Equity Share Application | 7,92,500 | Equity Shares Application | 77,500 |
| Equity Share Allotment | 6,91,000 | Balance c/d | 24,00,650 |
| Calls in Advance | 40,000 | | |
| Equity Share First Call | 4,75,000 | | |
| Equity Share Second and | | | |
| Final Call | 4,78,750 | | |
| Equity Share Capital | 900 | | |
| | 24,78,150 | | 24,78,150 |

^{*} Date column omitted.

Working Notes:

1. Excess Application Money

| | 2.02.000 | 2.00.000 | _, _ |
|----------------------------|--------------------------|-------------------------|-----------------------|
| iii | 8.000 | 2.000 | 1/4 |
| ii | 2,40,000 | 1,60,000 | 2/3 |
| i | 38,000 | 38,000 | 100% |
| Categories of Allotment | No. of Shares Applied | No. of Share Alloted | Ratio of Allotment |
| | | | |

2,86,000 2,00,000

Therefore, refund of application money = (3,17,000-2,86,000) Rs. 2.50

= Rs. 77,500

Application money received = Rs. 7,15,000

(2,86,000 shares @ Rs. 2.50)

Application money due : = Rs. 5,00,000

(2,00,000 shares @ Rs. 2.50)

Excess application money Rs. 2,15,000

2. Amount of Calls in Advance

As two allotees, each holding $4{,}000$ shares, paid the full amount on allotment, amount of calls-in-advance is thus:

 $8,000 \text{ shares} \quad (Rs. 2.50 + Rs. 2.50) = Rs. 40,000$

Buy-back of Shares: When a company purchase its own shares, it is called 'Buy-back of Shares'. Section 68 of The Companies Act, 2013 provides that the company can buy their own shares from either of the following sources:

- (a) Existing equity shareholders on a proportionate basis
- (b) Open Market
- (c) Odd-lot shareholders
- (d) Employees of the company

The company can buy back its own shares either from the free reserves, securities premium or from the proceeds of any shares or other specified securities. In case shares are bought back out of free reserves, the company must transfer a sum equal to the nominal value of shares bought back to 'Capital Redemption Reserve Account'.

The following procedures have been laid down for buy back of shares:

- (a) The Articles of the Association must authorise the company for the buy back of shares.
- (b) A special resolution must be passed in the companies' Annual General Body meeting.
- (c) The amount of buy back of shares in any financial year should not exceed 25% of the paid-up capital and free reserves.
- (d) The debt-equity ratio should not be more than a ratio of 2:1 after the buy back.
- (e) All the shares of buy back should be fully paid-up.
- (f) The buy-back of the shares should be completed within 12 months from the date of passing the special resolution.
- (g) The company should file a solvency declaration with the Registrar and SEBI which must be signed by at least two directors of the company.

Garima Limited issued a prospectus inviting applications for 3,000 shares of Rs. 100 each at a premium of Rs.20 payable as follows:

On Application Rs.20 per share

On Allotment Rs.50 per share (Including premium)

On First call Rs.20 per share On Second call Rs.30 per share

Applications were received for 4,000 shares and allotments made on prorata basis to the applicants of 3,600 shares, the remaining applications being rejected, money received on application was adjusted on account of sums due on allotment.

Renuka to whom 360 shares were allotted, failed to pay allotment money and calls money, and her shares were forfeited.

Kanika, the applicant of 200 shares failed to pay the two calls, her shares were also forfeited. All these shares were sold to Naman as fully paid for Rs.80 per share. Show the journal entries in the books of the company.

Solution:

Books of Garima Limited Journal

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|------|--------------------------|---------------------------|
| | Bank A/c Dr. To Share Application A/c (Application money received on 4,000 shares @ Rs. 20 per share) | | 80,000 | 80,000 |
| | Share Application A/c Dr. To Share Capital A/c To Share Allotment A/c To Bank A/c (Transfer of application money on 3,000 shares to Share Capital Account, on 600 shares to Allotment Account, and on of 400 shares refunded) | 80,0 | 00 | 60,000 12,000 8,000 |
| | Share Allotment A/c Dr. To Share Capital A/c To Securities Premium Reserve A/c (Money due on allotment @ Rs. 50 per share on 3,000 shares including Rs.20 on account of share premium) | | 1,50,000 | 90,000 60,000 |

| Bank A/c To Share Allotment A/c | Dr. | 1,21,440 | 1,21,440 |
|--|------------|------------------|--------------------------------------|
| (Money received on share allotment) | | | |
| Share First Call A/c To Share Capital A/c (Money due on call on 3,000 shares @ Rs.20 per share) | Dr. | 60,000 | 60,000 |
| Bank A/c To Share First Call A/c (First call money received on 2,440 shares) | Dr. | 48,800 | 48,800 |
| Share Second and Final Call A/c To Share Capital A/c (Money due on call on 3,000 shares @ Rs.30 per share) | Dr. | 90,000 | 90,000 |
| Bank A/c To Share Second and Final Call A/c (Second and Final Call money received on 2,440 shares) | Dr. | 73,200 | 73,200 |
| Share Capital A/c Securities Premium Reserve A/c To Share Allotment A/c To Share First Call A/c To Share Second and Final A/c To Share Forfeiture A/c (Forfeiture of 560 shares) | Dr. | 56,000 7,200 | 16,560 11,200 16,800 18,640 |
| Bank A/c Shares Forfeiture A/c To Share Capital A/c (Reissue of 560 forfeited shares) | Dr. Dr. | 44,800 11,200 | 56,000 |
| Shares Forfeiture A/c To Capital Reserve (Profit on reissue of 560 forfeited shares transferred to Capital reserve) | Dr. | 7,440 | 7,440 |

Working Notes:

Amount received on allotment has been calculated as follows:

Rs. 1,50,000

Total money due on allotment (including premium)

| Less: | Application money received on 600 shares adjusted towards allotment money | (12,000) |
|-------|---|----------|
| Less: | Net amount due on allotment on 3,000 shares Allotment money due on 360 shares alloted to | 1,38,000 |

Renuka, not received
$$\frac{360}{2000}$$
 1,38,000 (16,560)

Net amount received on 2,640 shares 1,21,440

Since the allotment money which includes securities premium of Rs. 20 per share has not been received on 360 shares held by Renuka (now forfeited) has been debited to Securities premium account as per rules.

Amount forefeited has been worked out as follows:

Application money received from Renuka:
$$\left|360 \quad \frac{3,600}{3,000}\right| = 432$$
 Rs. $20 = \text{Rs. } 8,640$

Application and Allotment money received from Kanika on 200 shares Rs. 10,000

Total amount received on forefeited shares Rs. 18,640

Do it Yourself

Excel Company Limited made an issue of 1,00,000 Equity Shares of Rs.10 each, payable as follows:

On Application Rs.2.50 per share
On Allotment Rs.2.50 per share
On First and Final Call Rs.5.00 per share

X, the holder of 400 shares did not pay the call money and his shares were forfeited. 200 of the forfeited shares were reissued as fully paid at Rs.8 per share. Draft necessary journal entries and prepare Share Capital and Share Forfeiture accounts in the books of the company.

Test Your Understanding - III

- (a) If a Share of Rs. 10 on which Rs. 8 is called-up and Rs. 6 is paid as forfeited. State with what amount the Share Capital account will be debited.
- (b) If a Share of Rs. 10 on which Rs. 6 has been paid is forfeited, at what minimum price it can be reissued.
- (c) Ahluwalia Ltd. issued 1,000 equity shares of Rs. 100 each as fully paid-up in consideration of the purchase of plant and machinery worth Rs. 1,00,000. What entry will be recorded in company's journal.

Sunrise Company Limited offered for public subscription 10,000 shares of Rs. 10 each at Rs. 11 per share. Money was payable as follows:

- Rs. 3 on application
- Rs. 4 on allotment (including premium)
- Rs. 4 on first and final call.

Applications were received for 12,000 shares and the directors made *pro-* rata allotment.

Mr. Ahmad, an applicant for 120 shares, could not pay the allotment and call money, and Mr. Basu, a holder of 200 shares, failed to pay the call. All these shares were forfeited.

Out of the forfeited shares, 150 shares (the whole of Mr. Ahmad's shares being included) were issued at Rs. 8 per share. Record journal entries for the above transactions and prepare the share forfeiture account.

Solution:

Books of Sunrise Company Limited Journal

| Date | Particulars | | L.F. | Debit | Credit |
|------|---|-----|------|--------|--------|
| | | | | Amount | Amount |
| | | | | (Rs.) | (Rs.) |
| | _ ::::::::::::::::::::::::::::::::::::: | Dr. | | 36,000 | |
| | To Share Application A/c | | | | 36,000 |
| | (Application money received on 12,000 shares @ Rs. 3 per share) | S | | | |
| | Share Application A/c | Dr. | | 36,000 | |
| | To Share Capital A/c | | | | 30,000 |
| | To Share Allotment A/c | | | | 6,000 |
| | (Transfer of application money to share capita account on 10,000 shares and the balance to allotment account) | ıl | | | |
| | Share Allotment A/c | Dr. | | 40,000 | |
| | To Share Capital A/c | | | | 30,000 |
| | To Securities Premium Reserve A/c | | | | 10,000 |
| | (Money due on allotment @ Rs. 4 per share on 10,000 shares including Rs. 1 on account of premium) | | | | |

| Bank A/c To Share Allotment A/c (Money received on share allotment: See | Dr. | 33,660 | 33,660 |
|--|------------|--------------|-----------------------|
| Share first and Final Call A/c Share Capital A/c (Money due on call on 10,000 shares @ Rs. 4 per share) | Dr. | 40,000 | 40,000 |
| Bank A/c To Share first and Final Call A/c (Call money received on 9,700 shares) | Dr. | 38,800 | 38,800 |
| Share Capital A/c Securities Premium Reserve A/c To Share Allotment A/c To Share first and Final Call A/c To Share Forfeiture A/c (Forfeiture of 300 shares) | Dr. | 3,000 100 | 340 1,200 1,560 |
| Bank A/c Shares Forfeiture A/c To Share Capital A/c (Reissue of 150 forfeited shares) | Dr. Dr. | 1,200 300 | 1,500 |
| Shares Forfeiture A/c To Capital Reserve (Profit on reissue of 150 forfeited shares transferred) | Dr. | 360 | 360 |

Share Forfeiture Account

Cr.

Dr.

| Date | Particulars | J.F. | Amount (Rs.) | Date | Particulars | J.F. | Amount (Rs.) |
|------|----------------------------------|------|-----------------|------|-------------|------|-----------------|
| | Share Capital Capital Reserve | 0 | 300 360 | | Sundries | | 1,560 |
| | Balance c/d | | 900 | | | | |
| | | | | 1 | | | |
| | | | 1,560 | | | | 1,560 |
| | | l | | | | 1 | |

Working Notes :

1. Amount received on allotment has been calculated as follows:

Rs.

Total money due on 10,000 shares @ Rs. 4 per share

40,000

Less: Application Money Received on 2,000 shares adjusted against allotment money

Net amount due on allotment

34,000

Less: Amount due from an applicant for 120 shares who was allotted only 100 shares

$$\frac{100}{10,000} \quad 34,000 \tag{340}$$
 Amount received on allotment
$$33,660$$

- 2. Securities Premium Account has been debited only with Rs. 100 relating to 100 shares allotted Mr. Ahmad's shares from whom the allotment money (including premium) has not been received.
- 3. Shares Forfeiture Account represents the money received on forfeited shares excluding Securites premium. This has been worked out as follows:

| | excluding Securites premium. This has been worked out as follows: | |
|----|---|----------|
| | | Rs. |
| | Mr. Ahmad has paid application money @ Rs. 3 per share on 120 sha | ares 360 |
| | Mr. Basu has paid @ Rs. 6 per share on 200 shares | 1,200 |
| | in (application and allotment money excluding premium) | , |
| | Total amount received | 1 500 |
| | Total amount received | 1,560 |
| | A . 6 | Rs. |
| 4. | Amount received from Mr. Ahmad on 100 shares forfeited | 360 |
| т. | which have been reissued | 300 |
| | Amount received from <i>Mr. Basu</i> on 50 | |
| | (50 Rs 1 200) | |
| | shares forfeited which have been reissued $\left \frac{30}{200} \right $ Rs. 1,200 | 300 |
| | | |
| | Total amount received on 150 shares which have | 660 |
| | been forfeited and later reissued | (0.0.0) |
| | Less: Discount on reissue of forfeited shares (150 Rs. 2) | (300) |
| | Amount of Capital Profit transferred to capital reserve | 360 |

Illustration 21

Devam Limited issued a prospectus inviting application for 30,000 equity shares of Rs.10 each at a premium of Rs. 4 per share payable as follows:

| With Application (including premium Rs. 1) | | Rs. 3 |
|--|---------|-------|
| On Allotment (including premium Rs.1) | | Rs. 4 |
| On First call (including premium Rs.1) | | Rs. 4 |
| On Second and Final call (2+1) | Balance | Rs. 3 |

Applications were received for 45,000 shares. 20% of the applications received were rejected and their application money was refunded. Remaining applicants were allotted shares on pro-rata basis.

Mr. Sudhir, who has applied for 600 shares, failed to pay the allotment money and his shares were forfeited immediately after that.

Ms. Muskan, to whom 750 shares were allotted failed to pay the first call and hence her shares were forfeited.

The forfeited shares of Mr. Sudhir were re-issued to Lakshya for Rs. 8 per share as fully paid up.

Final call was made due on remaining applicants and was received except on 1.000 shares of Amit. These shares were forfeited.

Of the shares forfeited, 1,500 shares were re-issued to Devika for Rs. 12 per share as fully paid up, the whole of Amit's share being included. Record journal entries in the books of the company.

Solution:

Books of Devam Limited Journal

| Date | Particulars Particulars | | L.F. | Debit | Credit | | |
|------|--|---------------|------|-----------------|--------------------------------------|--|--|
| | | | | Amount (Rs.) | Amount (Rs.) | | |
| | Bank A/c To Equity Share Application A/c (Application money received on 45,000 share | Dr. es) | | 1,35,000 | 1,35,000 | | |
| | Equity Share Application A/c To Equity Share Capital A/c To Securities Premium Reserve To Equity Share Allotment A/c To Bank A/c (Application money on 30,000 shares transferred to share capital A/c and securities premium resaccount, on 9,000 shares refunded and the eamount adjusted to share allotment account) | erve xcess | | 1,35,000 | 60,000 30,000 18,000 27,000 | | |
| | Equity Share Allotment A/c To Equity Share Capital A/c To Securities Premium Reserve (Allotment amount due on 30,000 Shares @ Rs. 4 per share including premium) | Dr. | | 1,20,000 | 90,000 30,000 | | |
| | Bank A/c To Equity Share Allotment A/c (Allotment amount received after adjusting excess money received on application except shares of Sudhir) | Dr. | | 1,00,300 | 1,00,300 | | |
| | Equity Share Capital A/c Securities Premium Reserve A/c To Equity Share Allotment A/c To Share Forfeiture A/c (Forfeiture of 500 shares of Sudhir) | Dr. Dr. | | 2,500 500 | 1,700 1,300 | | |

| Equity Share First Call A/c To Equity Share Capital A/c To Securities Premium Reserve (First Call amount due on 29,500 shares) | Dr. | | 1,18,000 | 88,500 29,500 |
|---|------------------|----------|--------------------------|----------------------------|
| Bank A/c To Equity Share First Call A/c (First call amount received on 28,750 share Equity Share Capital A/c Securities Premium Reserve A/c To Equity Share First Call A/c To Share Forfeiture A/c (Forfeiture of 750 shares of Muskan) | Dr. s) Dr. | | 1,15,000 6,000 750 | 1,15,000 3,000 3,750 |
| Bank A/c Share Forfeiture A/c To Equity Share Capital A/c (Re-issue of 500 forfeited shares of Sudhir) | Dr. Dr. | | 4,000 1,000 | 5,000 |
| Share Forfeiture A/c To Capital Reserve (Profit on 500 re-issued shares transferred to Capital reserve) | Dr. | | 300 | 300 |
| Equity Share Second and Final To Equity Share Capital A/c To Securities Premium Reserve A/c (Second and Final Call money due on 28,750 shares) | Dr. |) | 86,250 | 57,500 28,750 |
| Bank A/c To Equity Share Second and Final Call A/c (Second and final call amount received on 27,750 shares) | Dr. | | 83,250 | 83,250 |
| Equity Share Capital A/c Securities Premium Reserve To Equity Share Second and Final Call A/ To Share Forfeiture A/c (Forfeiture of 1,000 shares of Amit) | Dr. Dr. c | | 10,000 1,000 | 3,000 8,000 |
| Bank A/c To Equity Share Capital A/c To Securities Premium Reserve A/c (Re-issue of 1,500 forfeited shares, including 1,000 shares of Amit and 500 shares of Muskan) | Dr. | | 18,000 | 15,000 3,000 |
| Share Forfeiture A/c To Capital Reserve (Profit on 1,500 re-issued shares transferred to Capital Reserve) | Dr. | | 10,500 | 10,500 |

Working Notes:

| 1. | Aı | mount received on allotment | | | | Rs. |
|----|----|--|-----|------------------|---------|----------|
| | a. | Amount due on allotment | | | | |
| | | 30,000 shares × Rs. 4 per share | | | | 1,20,000 |
| | b. | Amount actually due on allotment | | | | |
| | | Amount due on allotment | | | | 1,20,000 |
| | Le | ess: Excess Application amount applied | 1 f | or allotm | ent | 18,000 |
| | | Amount actually due. | | | | 1,02,000 |
| | c. | Allotment money due from Sudhir | | | | |
| | | Shares Applied by Sudhir = | = | 600 | | |
| | | Shares Allotted to Sudhir = | = | 30,000 36,000 | × 600 = | = 500 |
| | | Allotment money due from Sudhir | | | | |
| | | 500 shares × Rs. 4 per share | | | | 2,000 |
| | | Less - Excess application money pai | id | | | 0, |
| | | (600 shares - 500 shares) × Rs. 3 | | | | 300 |
| | | Allotment money due from Sudhir | | | | 1,700 |
| | | | | | | |
| | d. | Amount actually due on Allotment | | | | 1,02,000 |
| | | Less Amount Unpaid by Sudhir | | | | 1,700 |
| | | Amount received on allotment | | | | 1,00,300 |
| | | Amount received on allotment | | | | 1,00,300 |

2. 1,500 shares have been re-issued including 1,000 shares of Amit and balance 500 shares of Muskan.

Profit on 1,000 shares of Amit

8,000

Profit on 500 shares of Muskan =
$$\frac{3,750}{750} \times 500 = \frac{2,500}{10,500}$$

3. Balance in Share Forfeiture Account of 250 shares

of Muskan =
$$\frac{3,750}{750} \times 250 = 1,250$$

Do it Yourself

Journalise the following:

- (a) The directors of a company forfeited 200 equity shares of Rs.10 each on which Rs. 800 had been paid. The shares were reissued upon payment of Rs.1,500.
- (b) A holds 100 shares of Rs.10 each on which he has paid Re.1 per share on application. B holds 200 shares of Rs.10 each on which he has paid Re.1 on application Rs.2 on allotment. C holds 300 shares of Rs.10 each who has paid Re.1 on applications, Rs.2 on allotment and Rs.3 on first call. They all failed to pay their arrears and second call of Rs.4 per share as well. All the shares of A, B and C were forfeited and subsequently reissued at Rs.11 per share as fully Paid-up.

Termes Used in the Chapter

- 1. Joint Stock Company
- 2. Share Capital
- 3. Authorised Capital
- 4. Issued Capital
- 5. Unissued Capital
- 6. Subscribed Capital
- 7. Subscribed and fully paid-up
- 8. Subscribed but not fully paid up
- 9. Paid-up Capital
- 10. Reserve Capital
- 11. Shares
- 12. Preference Shares
- 13. Non-redeemable Preference Shares
- 14. Equity Shares
- 15. Issue of Shares for Consideration
 Other than Cash

- 16. Premium on Shares
- 17. Application Money
- 18. Minimum Subscription
- 19. Calls on Shares
- 20. Calls in Arrears
- 21 Calls in Advance
- 22. Over subscription
- 23. Under subscription
- 24. Forfeiture of Shares
- 25. Reissue of forfeited shares
- 26. Buy-back of Shares

Summarı

Company: An organisation consisting of individuals called 'shareholders' by virtue of their holding the shares of a company, who can act as legal person as regards its business through board of directors.

Share: Fractional part of the capital, and forms the basis of ownership in a company. Shares are generally of two types, viz. equity shares and preference shares, according to the provisions of the Companies Act, 2013. Preference shares again are of different types based on varying shades of rights attached to them.

Share Capital of a company is collected by issuing shares to either a select group of persons through the route of private placements and/or offered to the public for subscription. Thus, the issue of shares is basic to the capital of a company. Shares are issued either for cash or for consideration other than cash, the former being more common. Shares are said to be issued for consideration other than cash when a company purchases business, or some asset/assets, and the vendors have agreed to receive payment in the form of fully paid shares of a company.

Stages of Share Issue: The issue of shares for cash is required to be made in strict conformity with the procedure laid down by law for the same. When shares are issued for cash, the amount on them can be collected at one or more of the following stages:

- (i) Application for shares
- (ii) Allotment of shares
- (iii) Call/Calls on shares.

Calls in Arrears: Sometimes, the full amount called on allotment and/or call (calls) is not received from the allottees/shareholders. The amount not so received are cumulatively called 'Unpaid calls' or 'Calls in Arrears'. However, it is not mandatory for a company to maintain a separate Calls-in-Arrears Account. There are also instances where some shareholders consider it discreet to pay a part or whole of the amount not yet called-up on the shares allotted to them. Any amount paid by a shareholder in the excess of the amount due from him on allotment/call (calls) is known as 'Calls in Advance' for which a separate account is maintained. A company has the power to charge interest on calls in arrears and is under an obligation to pay interest on calls-in-advance if it accepts them in accordance with the provisions of Articles of Association.

Over Subscription: It is possible for the shares of some companies to be over subscribed which means that applications for more shares are received than the number offered for subscription.

If the amount of minimum subscription is not received to the extent of 90%, the issue dissolves. In case the applications received are less than the number of shares offered to the public, the issue is termed as 'under subscribed'.

Issue of Shares at Premium: Irrespective of the fact that shares have been issued for consideration other than cash, they can be issued either at par or at premium. The issue of shares at par implies that the shares have been issued for an amount exactly equal to their face or nominal value. In case shares are issued at a premium, i.e. at an amount more than the nominal or par value of shares, the amount of premium is credited to a separate account called 'Securities Premium Reserve Account', the use of which is strictly regulated by law.

Issue of Shares at Discount: Shares can as well be issued at a discount, i.e. for an amount less than the nominal or par value of shares provided the company fully complies with the provisions laid down by law with regard to the same. Apart from such compliance, shares of a company cannot ordinarily be issued at a discount. According to the Companies Act, 2013, only sweat equity shares can be issued at a discount. When shares are issued at a discount, the amount of discount is debited to 'Discount on Issue of Share Account', which is in the nature of capital loss for the company.

Forfeiture of Shares: Sometimes, shareholders fail to pay one or more instalments on shares allotted to them. In such a case, the company has the authority to forfeit shares of the defaulters. This is called 'Forfeiture of Shares'. Forfeiture means the cancellation of allotment due to breach of contract and to treat the amount already received on such shares as forfeited to the company. The precise accounting treatment of share forfeiture depends upon the conditions on which the shares have been issued — at par, premium or discount. Generally speaking, accounting treatment on forfeiture is to reverse the entries passed till the stage of forfeiture, the amount already received on the shares being credited to Forfeiture Shares Account.

Reissue of Shares: The management of a company is vested with the power to reissue the shares once forfeited by it, subject of course, to the terms and conditions in the articles of association relating to the same. The shares can be reissued even at a discount provided the amount of discount allowed does not exceed the credit balance of Share forfeiture account relating to shares being reissued. Therefore, discount allowed on the reissue of forfeited shares is debited to Share forfeiture account.

Once all the forfeited shares have been reissued, any credit balance on Share forfeiture account is transferred to Capital Reserve representing profit on forfeiture of shares. In the event of all forfeited share not being reissued, the credit amount on Share forfeiture account relating to shares yet to be reissued is carried forward and the remaining balance on the account only is credited to capital reserve account.

Question for Practice

Short Answer Questions

- 1. What is public company?
- 2. What is a private company.
- 3. When can shares be Forfeited?
- 4. What is meant by Calls in Arrears?
- 5. What do you mean by a listed company?
- 6. What are the uses of securities premium?
- 7. What is meant by Calls in Advance?
- 8. Write a brief note on "Minimum Subscription".

Long Answer Questions

- 1. What is meant by the word 'Company'? Describe its characteristics.
- 2. Explain in brief the main categories in which the share capital of a company is divided.
- 3. What do you mean by the term 'share'? Discuss the type of shares, which can be issued under the Companies Act, 2013 as amended to date.
- 4. Discuss the process for the allotment of shares of a company in case of over subscription.
- 5. What is a 'Preference Share'? Describe the different types of preference shares.
- 6. Describe the provisions of law relating to 'Calls in Arrears' and 'Calls in Advance'.
- 7. Explain the terms 'Over subscription' and 'Under subscription'. How are they dealt with in accounting records?
- 8. Describe the purposes for which a company can use the amount of Securities Premium.
- 9. State clearly the conditions under which a company can issue shares at a discount.
- 10. Explain the term 'Forfeiture of Shares' and give the accounting treatment on forfeiture.

Numerical Questions

- 1. Anish Limited issued 30,000 equity shares of Rs.100 each payable at Rs.30 on application, Rs.50 on allotment and Rs.20 on 1st and final call. All money was duly received.
 - Record these transactions in the journal of the company.
- 2. The Adarsh Control Device Ltd. was registered with the authorised capital of Rs.3,00,000 divided into 30,000 shares of Rs.10 each, which were offered to the public. Amount payable as Rs.3 per share on application, Rs.4 per share on allotment and Rs.3 per share on first and final call. These shares were fully subscribed and all money was dully received. Prepare journal and Cash Book.
- 3. Software Solution India Ltd. invited applications for 20,000 equity shares of Rs.100 each, payable Rs.40 on application, Rs.30 on allotment and Rs.30 on first and final call. The company received applications for 32,000 shares. Application for 2,000 shares were rejected and money returned to applicants. Applications for 10,000 shares were accepted in full and applicants for 20,000 shares allotted half of the number of shares applied and excess application money adjusted into allotment. All money due on allotment and call was received.
 - Prepare journal and cash book.
- 4. Rupak Ltd. issued 10,000 shares of Rs.100 each payable Rs.20 per share on application, Rs.30 per share on allotment and balance in two calls of Rs.25 per share. The application and allotment money were duly received. On first call, all members paid their dues except one member holding 200 shares, while another member holding 500 shares paid for the balance due in full. Final call was not made.
 - Give journal entries and prepare cash book.
- 5. Mohit Glass Ltd. issued 20,000 shares of Rs.100 each at Rs.110 per share, payable Rs.30 on application, Rs.40 on allotment (including Premium), Rs.20 on first call and Rs.20 on final call. The applications were received for 24,000 shares and allotted 20,000 shares and rejected 4,000 shares and amount returned thereon. The money was duly received.
 - Give journal entries.
- 6. A limited company offered for subscription of 1,00,000 equity shares of Rs.10 each at a premium of Rs.2 per share, 2,00,000 10% Preference shares of Rs.10 each at par.

The amount on share was payable as under:

Equity Shares Preference Shares
On Application Rs.3 per share Rs.3 per share
On Allotment Rs.5 per share Rs.4 per share
(including premium)

On First Call Rs.4 per share Rs.3 per share

All the shares were fully subscribed, called-up and paid.

Record these transactions in the journal and cash book of the company:

7. Eastern Company Limited, with an authorised capital of Rs.10,00,000 is divided into equity shares of Rs.10 each, issued 50,000 equity shares at a premium of Rs.3 per share payable as follows:

On Application

Rs.3 per share

On Allotment (including premium)

Rs.5 per share

On first call (due three months after allotment) Rs.3 per share and the balance as and when required.

Applications were received for 60,000 shares and the directors allotted the shares as follows:

- (a) Applicants for 40,000 shares received in full.
- (b) Applicants for 15,000 shares received an allotment of 8,000 shares.
- (c) Applicants for 5000 shares received on allotment of 2000 shares, excess money being returned.

All amounts due on allotment were received.

The first call was duly made and the money was received with the exception of the call due on 100 shares.

Give journal and cash book entries to record these transactions of the company. Also prepare the Balance Sheet of the company.

8. Sumit Machine Ltd. issued 50,000 shares of Rs.100 each at premium of 5%. The shares were payable Rs.25 on application, Rs. 50 on allotment and Rs.30 on first and final call. The issue was fully subscribed and money was duly received except the final call on 400 shares. The premium was adjusted on allotment.

Give journal entries and prepare the balance sheet.

9. Kumar Ltd. purchased assets of Rs.6,30,000 from Bhanu Oil Ltd. Kumar Ltd. issued equity share of Rs.100 each fully paid in consideration. What journal entries will be made, if the shares are issued, (a) at par, and (b) at premium of 20%.

(Answer: Numbers of shares issued (a) 6,300 (b) 5,250)

10. Bansal Heavy Machine Ltd. purchased machine worth Rs.3,80,000 from Handa Trader. Payment was made as Rs.50,000 cash and remaining amount by issue of equity shares of the face value of Rs. 100 each fully paid at an issue price of Rs.110 each.

Give journal entries to record the above transaction.

(Answer: Numbers of shares issued = 3,000 shares)

11. Naman Ltd. issued 20,000 shares of Rs.100 each, payable Rs.25 on application, Rs.30 on allotment, Rs.25 on first call and the balance on final call. All money duly received except Anubha, who holding 200 shares did not pay allotment and calls money and Kumkum, who holding 100 shares did not pay both the calls. The directors forfeited the shares of Anubha and Kumkum.

Give journal entries.

12. Kishna Ltd. issued 15,000 shares of Rs.100 each at a premium of Rs.10 per share, payable as follows:

On application Rs.30

On allotment Rs.50 [including premium]

On first and final call Rs.30

All the shares subscribed and the company received all the money due, with the exception of the allotment and call money on 150 shares. These shares were forfeited and reissued to Neha as fully paid share at an issue price of Rs.12 each.

Give journal entries in the books of the company.

(Answer: Capital Reserve = Rs. 4.500)

13. Arushi Computers Ltd. issued 10,000 equity shares of Rs.100 each at 10% premium. The net amount payable as follows:

On application Rs.20

On allotment Rs.50 (Rs.40 + premium Rs.10)

On first call Rs.30
On final call Rs.10

A shareholder holding 200 shares did not pay final call. His shares were forfeited. Out of these 150 shares were reissued to Ms.Sonia at Rs.75 per share.

Give journal entries in the books of the company.

(Answer: Capital Reserve = Rs.9.750)

14. Raunak Cotton Ltd. issued a prospectus inviting applications for 6,000 equity shares of Rs.100 each at a premium of Rs.20 per shares, payable as follows:

On application Rs.20

On allotment Rs.50 [including premium]

On first call Rs.30
On final call Rs.20

Applications were received for 10,000 shares and allotment was made pro-rata to the applicants of 8,000 shares, the remaining applications being refused. Money received in excess on the application was adjusted toward the amount due on allotment.

Rohit, to whom 300 shares were allotted failed to pay allotment and calls money, his shares were forfeited. Itika, who applied for 600 shares, failed to pay the two calls and her shares were also forfeited. All these shares were sold to Kartika as fully paid for Rs.80 per share.

Give journal entries in the books of the company.

(Answer: Capital Reserve = Rs.15,500)

15. Himalaya Company Limited issued for public subscription of 1,20,000 equity shares of Rs.10 each at a premium of Rs.2 per share payable as under :

With Application Rs. 3 per share
On allotment (including premium) Rs. 5 per share
On First call Rs. 2 per share
On Second and Final call Rs. 2 per share

Applications were received for 1,60,000 shares. Allotment was made on prorata basis. Excess money on application was adjusted against the amount due on allotment.

Rohan, whom 4,800 shares were allotted, failed to pay for the two calls. These shares were subsequently forfeited after the second call was made. All the shares forfeited were reissued to Teena as fully paid at Rs. 7 per share.

Record journal entries and show the transactions relating to share capital in the company's balance sheet.

(Answer = Rs. 14,400)

16. Prince Limited issued a prospectus inviting applications for 20,000 equity shares of Rs.10 each at a premium of Rs.3 per share payable as follows:

With Application Rs.2
On Allotment (including premium) Rs.5
On First Call Rs.3
On Second Call Rs.3

Applications were received for 30,000 shares and allotment was made on pro-rata basis. Money overpaid on applications was adjusted to the amount due on allotment.

Mr. Mohit whom 400 shares were allotted, failed to pay the allotment money and the first call, and his shares were forfeited after the first call. Mr. Joly, whom 600 shares were allotted, failed to pay for the two calls and hence, his shares were forfeited.

Of the shares forfeited, 800 shares were reissued to Supriya as fully paid for Rs.9 per share, the whole of Mr. Mohit's shares being included.

Record journal entries in the books of the Company and prepare the Balance Sheet.

(Answer: Capital Reserve = Rs. 2,000)

17. Life Machine Tools Limited issued 50,000 equity shares of Rs.10 each at Rs.12 per share, payable at to Rs.5 on application (including premium), Rs.4 on allotment and the balance on the first and final call.

Applications for 70,000 shares had been received. Of the cash received, Rs.40,000 was returned and Rs.60,000 was applied to the amount due on allotment. All shareholders paid the call due, with the exception of one shareholder of 500 shares. These shares were forfeited and reissued as fully paid at Rs.8 per share. Journalise the transactions.

(Answer: Capital Reserve = Rs. 2,500)

18. The Orient Company Limited offered for public subscription 20,000 equity shares of Rs.10 each at a premium of 10% payable at Rs.2 on application; Rs.4 on allotment including premium; Rs.3 on First Call and Rs.2 on Second and Final call. Applications for 26,000 shares were received. Applications for 4,000 shares were rejected. Pro-rata allotment was made to the remaining applicants. Both the calls were made and all the money were received except the final call on 500 shares which were forfeited. 300 of the forfeited shares were later reissued as fully paid at Rs.9 per share. Give journal entries and prepare the balance sheet.

(Answer: Capital Reserve = Rs. 2,100)

19. Alfa Limited invited applications for 4,00,000 of its equity shares of Rs.10 each on the following terms:

Payable on application Rs.5 per share
Payable on allotment Rs.3 per share
Payable on first and final call Rs.2 per share

Applications for 5,00,000 shares were received. It was decided:

- (a) to refuse allotment to the applicants for 20,000 shares;
- (b) to allot in full to applicants for 80,000 shares;
- (c) to allot the balance of the available shares' pro-rata among the other applicants; and
- (d) to utilise excess application money in part as payment of allotment money.

One applicant, whom shares had been allotted on pro-rata basis, did not pay the amount due on allotment and on the call, and his 400 shares were forfeited. The shares were reissued @ Rs.9 per share. Show the journal and prepare Cash book to record the above.

(Answer: Capital Reserve = Rs. 2,100)

20. Ashoka Limited Company which had issued equity shares of Rs.20 each at a premium of Rs. 4 per share, forfeited 1,000 shares for non-payment of final call of Rs.2 per share. 400 of the forfeited shares were reissued at Rs.14 per share out of the remaining shares of 200 shares reissued at Rs.20 per share. Give journal entries for the forfeiture and reissue of shares and show the amount transferred to capital reserve and the balance in Share Forfeiture Account.

(Answer: Capital Reserve = Rs. 8,400, Balance of Share Forfeiture Account: Rs. 7200)

21. Amit holds 100 shares of Rs.10 each on which he has paid Re.1 per share as application money. Bimal holds 200 shares of Rs.10 each on which he has paid Re.1 and Rs.2 per share as application and allotment money, respectively. Chetan holds 300 shares of Rs.10 each and has paid Re.1 on application, Rs.2 on allotment and Rs.3 for the first call. They all failed to pay their arrears and the second call of Rs.2 per share and the directors, therefore, forfeited their shares. The shares are reissued subsequently for Rs.11 per share as fully paid. Journalise the transactions.

(Answer: Capital Reserve = Rs. 2,500)

22. Ajanta Company Limited having a nominal capital of Rs.3,00,000, divided into shares of Rs.10 each offered for public subscription of 20,000 shares payable at Rs.2 on application; Rs.3 on allotment and the balance in two calls of Rs.2.50 each. Applications were received by the company for 24,000 shares. Applications for 20,000 shares were accepted in full and the shares allotted. Applications for the remaining shares were rejected and the application money was refunded. All moneys due were received with the exception of the final call on 600 shares which were forfeited after legal formalities were fulfilled. 400 shares of the forfeited shares were reissued at Rs.9 per share.

Record necessary journal entries and prepare the balance sheet showing the amount transferred to capital reserve and the balance in share forfeiture account.

(Answer: Capital Reserve = Rs. 2,600)

- 23. Journalise the following transactions in the books Bhushan Oil Ltd.:
 - (a) 200 shares of Rs.100 each issued at a premium of Rs.10 were forfeited for the non-payment of allotment money of Rs.60 per share. The first and final call of Rs.20 per share on these shares were not made. The forfeited shares were reissued at Rs.70 per share as fully paid-up.

- (b) 150 shares of Rs.10 each issued at a premium of Rs.4 per share payable with allotment were forfeited for non-payment of allotment money of Rs.8 per share including premium. The first and final calls of Rs.4 per share were not made. The forfeited shares were reissued at Rs.15 per share fully paid-up.
- (c) 400 shares of Rs.50 each issued at par were forfeited for non-payment of final call of Rs.10 per share. These shares were reissued at Rs.45 per share fully paid-up.

(Answer: Capital Reserve = (a) NIL (b) Rs. 300 (c) Rs.14,000)

24. Amisha Ltd. invited applications for 40,000 shares of Rs.100 each at a premium of Rs.20 per share. Amount payable on application Rs.40; on allotment Rs.40 (Including premium): on first call Rs.25 and second and final call Rs.15.

Applications were received for 50,000 shares and allotment was made on prorata basis. Excess money on application was adjusted against the sums due on allotment.

Rohit to whom 600 shares were allotted failed to pay the allotment money and his shares were forfeited after allotment. Ashmita, who applied for 1,000 shares failed to pay the two calls and her shares were forfeited after the second call. Of the shares forfeited, 1,200 shares were sold to Kapil for Rs.85 per share as fully paid, the whole of Rohit's shares being included.

Record necessary journal entries.

(Answer: Capital Reserve = Rs. 48,000 Balace of Share Forfeiture A/c Rs.12,000)

Answers to Test your Understanding

Test your Understanding - I

- (a) True, (b) False, (c) False, (d) True, (e) True, (f) True, (g) False, (h) True,
- (i) False, (j) True, (k) True

Test your Understanding - II

(a) (ii), (b) (iii), (c) (i), (d) (ii), (e) (i), (f) (iii), (g) (iii)

Test your Understanding - III

- (a) Rs. 8. (b) Rs. 4.
- (c) Vendor Dr. 1,00,000

To Share Capital A/c 1,00,000

LEARNING OBJECTIVES

After studying this chapter you will be able to:

- state the meaning of debenture and explain the difference between debentures and shares;
- describe various types of debentures;
- record the journal entries for the issue of debentures at par, at a discount and at premium;
- explain the concept of debentures issued for consideration other than cash and the accounting thereof;
- explain the concept of issue of debentures as a collateral security and the accounting thereof;
- record the journal entries for issue of debentures with various terms of issue, terms of redemption;
- show the items relating to issue of debentures in company's balance sheet;
- describe the methods of writing-off discount/loss on issue of debentures;
- explain the methods of redemption of debentures and the accounting thereof; and
- explain the concept of sinking fund, its use for redemption of debentures and the accounting thereof.

A company raises its capital by means of issue of shares. But the funds raised by the issue of shares are seldom adequate to meet their long term financial needs of a company. Hence, most companies turn to raising long-term funds also through debentures which are issued either through the route of private placement or by offering the same to the public. The finances raised through debentures are also known as long-term debt. This chapter deals with the accounting treatment of issue and redemption of debentures and other related aspects.

SECTION I

2.1 Meaning of Debentures

Debenture: The word 'debenture' has been derived from a Latin word 'debere' which means to borrow. Debenture is a written instrument acknowledging a debt under the common seal of the company. It contains a contract for repayment of principal after a specified period or at intervals or at the option of the company and for payment of interest at a fixed rate payable usually either half-yearly or yearly on fixed dates. According to section 2(30) of The Companies Act, 2013 'Debenture' includes Debenture Inventory, Bonds and any other securities of a company whether constituting a charge on the assets of the company or not.

Bond: Bond is also an instrument of acknowledgement of debt. Traditionally, the Government issued bonds, but these days, bonds are also being issued by semi-government and non-governmental organisations. The terms 'debentures' and 'Bonds' are now being used inter-changeably.

2.2 Distinction between Shares and Debentures

Ownership: A 'share' represents ownership of the company whereas a debenture is only acknowledgement of Debt. A share is a part of the owned capital whereas a debenture is a part of borrowed capital.

Return: The return on shares is known as dividend while the return on debentures is called interest. The rate of return on shares may vary from year to year depending upon the profits of the company but the rate of interest on debentures is prefixed. The payment of dividend is an appropriation of profits, whereas the payment of interest is a charge on profits and is to be paid even if there is no profit.

Repayment: Normally, the amount of shares is not returned during the life of the company, whereas, generally, the debentures are issued for a specified period and repayable on the expiry of that period.

Voting Rights: Shareholders enjoy voting rights whereas debentureholders do not normally enjoy any voting right.

Security: Shares are not secured by any charge whereas the debentures are generally secured and carry a fixed or floating charge over the assets of the company.

Convertibility: Shares cannot be converted into debentures whereas debentures can be converted into shares if the terms of issue so provide, and in that case these are known as convertible debentures.

2.3 Types of Debentures

A company may issue different kinds of debentures which can be classified as under:

2.3.1 From the Point of view of Security

(a) Secured Debentures: Secured debentures refer to those debentures where a charge is created on the assets of the company for the purpose of payment in case of default. The charge may be fixed or floating. A fixed charge is created on a specific asset whereas a floating charge is

- on the general assets of the company. The fixed charge is created against those assets which are held by a company for use in operations not meant for sale whereas floating charge involves all assets excluding those assigned to the secured creditors.
- (b) Unsecured Debentures: Unsecured debentures do not have a specific charge on the assets of the company. However, a floating charge may be created on these debentures by default. Normally, these kinds of debentures are not issued.

2.3.2 From the Point of view of Tenure

- (a) Redeemable Debentures: Redeemable debentures are those which are payable on the expiry of the specific period either in lump sum or in Instalments during the life time of the company. Debentures can be redeemed either at par or at premium.
- (b) Irredeemable Debentures: Irredeemable debentures are also known as Perpetual Debentures because the company does not give any undertaking for the repayment of money borrowed by issuing such debentures. These debentures are repayable on the winding-up of a company or on the expiry of a long period.

2.3.3 From the Point of view of Convertibility

- (a) Convertible Debentures: Debentures which are convertible into equity shares or in any other security either at the option of the company or the debentureholders are called convertible debentures. These debentures are either fully convertible or partly convertible.
- (b) Non-Convertible Debentures: The debentures which cannot be converted into shares or in any other securities are called non-convertible debentures. Most debentures issued by companies fall in this category.

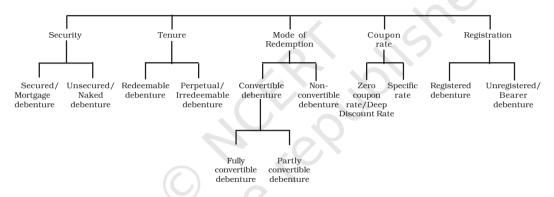
2.3.4 From Coupon Rate Point of view

- (a) Specific Coupon Rate Debentures: These debentures are issued with a specified rate of interest, which is called the coupon rate. The specified rate may either be fixed or floating. The floating interest rate is usually tagged with the bank rate.
- (b) Zero Coupon Rate Debentures: These debentures do not carry a specific rate of interest. In order to compensate the investors, such debentures are issued at substantial discount and the difference between the nominal value and the issue price is treated as the amount of interest related to the duration of the debentures.

2.3.5 From the view Point of Registration

- (a) Registered Debentures: Registered debentures are those debentures in respect of which all details including names, addresses and particulars of holding of the debentureholders are entered in a register kept by the company. Such debentures can be transferred only by executing a regular transfer deed.
- (b) Bearer Debentures: Bearer debentures are the debentures which can be transferred by way of delivery and the company does not keep any record of the debentures Interest on debentures is paid to a person who produces the interest coupon attached to such debentures

Types of Debenture/Bond



2.4 Issue of Debentures

The procedure for the issue of debentures is the same as that for the issue of shares. The intending investors apply for debentures on the basis of the prospectus issued by the company. The company may either ask for the entire amount to be paid on application or by means of instalments on application, on allotment and on various calls. Debentures can be issued at par, at a premium or at a discount. They can also be issued for consideration other than cash or as a collateral security.

2.4.1 Issue of Debentures for Cash

Debentures are said to be issued at par when their issue price is equal to the face value. The journal entries recorded for such issue are as under:

- (a) If whole amount is received in one instalment:
 - (i) On receipt of the application money

Bank A/c Dr.

To Debenture Application & Allotment A/c

(ii) On Allotment of debentures

Debenture Application & Allotment A/c Dr.

To Debentures A/c

- (b) If debenture amount is received in two instalments:
 - (i) On receipt of application money

Bank A/c Dr.

To Debenture Application A/c

(ii) For adjustment of applications money on allotment

Debenture Application A/c

To Debentures A/c

(iii) For allotment money due

Debenture Allotment A/c Dr.

To Debentures A/c

(iv) On receipt of allotment money

Bank A/c Dr.

To Debenture Allotment A/c

- (c) If debenture money is received in more than two instalments Additional entries:
 - (i) On making the first call

Debenture First Call A/c Dr.

To Debentures A/c

(ii) On the receipt of the first call

Bank A/c Dr.

To Debenture First Call A/c

Note: Similar entries may be made for the second call and final call. However, normally the whole amount is collected on application or in two instalments, i.e., on application and allotment.

Illustration 1

ABC Lmited issued 10,000, 12% debentures of Rs. 100 each payable Rs. 30 on application and remaining amount on allotment. The public applied for 9,000 debentures which were fully allotted, and all the relevant allotment money was duly received. Give journal entries in the books of ABC Ltd., and exhibit the relevant information in the balance sheet.

Solution:

Books of ABC Limited Journal

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|------|--------------------------|---------------------------|
| | Bank A/c Dr. To 12% Debenture Application A/c (Application money on 9,000 debentures received) |) | 2,70,000 | 2,70,000 |
| | 12% Debenture Application A/c Dr. To 12% Debentures A/c (Application money transferred to debentures Account on allotment) | | 2,70,000 | 2,70,000 |
| | 12% Debenture Allotment A/c Dr. To 12% Debentures A/c (Amount due on 9,000 debentures on allotment @ Rs. 70 per debenture) | | 6,30,000 | 6,30,000 |
| | Bank A/c Dr. To 12% Debenture Allotment A/c (Amount received on allotment) | | 6,30,000 | 6,30,000 |

ABC Limited

*Balance Sheet as at

| Particulars | Note | Amount |
|---------------------------|------|----------|
| | No. | (Rs.) |
| I. Equity and Liabilities | | |
| Non-current liabilities | 1 | 9,00,000 |
| Long-term borrowings | | |
| II. Assets | | |
| Current assets | | |
| Cash and cash equivalents | 2 | 9,00,000 |

* Relevant data only

Notes to Accounts

| | Particulars | Amount |
|----|---------------------------------------|----------|
| | | (Rs.) |
| 1. | Long-term borrowings | |
| | 9,000, 12% Debentures of Rs. 100 each | 9,00,000 |
| 2. | Cash and cash equivalents | |
| | Cash at bank | 9,00,000 |

2.4.2 Issue of Debentures at a Discount

When a debenture is issued at a price below its nominal value, it is said to be issued at a discount. For example, the issue of Rs. 100 debentures at Rs. 95, Rs. 5 being the amount of discount. The discount on issue of debentures can be written off either by debiting it to or out of Securities Premium Reserve, if any, during the life time of debentures.

Discount on issue of debentures to be written off within 12 months of the balance sheet date or the period of operating cycle is shown under 'Other Current Assets' and the part which is to be written off after 12 months of balance sheet is shown under 'Other Non-Current Assets'.

The Companies Act, 2013 does not impose any restrictions upon the issue of debentures at a discount.

Illustration 2

TV Components Ltd., issued 10,000, 12% debentures of Rs. 100 each at a discount of 5% payable as follows:

On application Rs. 40 On allotment Rs. 55

Show the journal entries including those for cash, assuming that all the instalments were duly collected. Also show the relevant portion of the balance sheet.

Solution:

Books of TV Components Ltd. Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|-----|------|--------------------------|---------------------------|
| | Bank A/c To 12% Debenture Application A/c (Receipt of application money @ Rs 30 per debenture) | Dr. | | 4,00,000 | 4,00,000 |
| | 12% Debenture Application A/c To 12% Debenture A/c (Transfer of application money to debenture account) | Dr. | | 4,00,000 | 4,00,000 |
| | 12% Debenture Allotment A/c Discount on Issue of Debentures A/c To 12% Debenture A/c (Allotment money due on debentures) | Dr. | | 5,50,000 50,000 | 6,00,000 |
| | Bank A/c To 12% Debenture Allotment A/c (Receipt of allotment money on debentures) | Dr. | | 5,50,000 | 5,50,000 |
| | Securities Premium Reserve/Statement of Profit and Loss A/c. To Discount on Issue of Debentures A, (Discount on issue of debentures written off) | | | 50,000 | 50,000 |

TV Components Limited Balance Sheet as at.....

| Particulars | Note | Amount |
|------------------------------|------|----------|
| | No. | (Rs.) |
| I. Equity and Liabilities | | |
| 1. Shareholders' Funds | | |
| Reserves and Surplus | | |
| 2. Non-Current Liabilities | | |
| Long-term borrowings | 2 | 9,50,000 |
| II. Assets | | |
| a) Cash and Cash Equivalents | 3 | 9,50,000 |
| | | |
| | | 9,50,000 |

Notes to Accounts

| Particulars | Amount (Rs.) |
|--|-----------------|
| Reserves and Surplus | (113.) |
| Surplus, i.e., Balance in Statement of Profit and Loss | (50,000) |
| 2. Long-term borrowings 10,000, 12% secured debentures of Rs. 100 each | 10,00,000 |
| 3. Cash and Cash Equivalents Cash at bank | 9,50,000 |

Notes:

2.4.3 Debentures issued at Premium

A debenture is said to be issued at a premium when the price charged is more than its nominal value. For example, the issue of Rs. 100 debentures for Rs. 110, (Rs. 10 is being the premium). The amount of premium is credited to Securities Premium Reserve account and is shown on the liabilities side of the balance sheet under the head "Reserves and Surpluses".

Illustration 3

XYZ Industries Ltd., issued 2,000, 10% debentures of Rs. 100 each, at a premium of Rs. 10 per debenture payable as follows:

On application Rs. 50 On allotment Rs. 60

The debentures were fully subscribed and all money was duly received. Record the journal entries in the books of a company. Show how the amounts will appear in the balance sheet.

¹ It is presumed that debentures are redeemable after 10 years.

^{*}Relevant data only.

Solution:

Books of XYZ Industries Limited Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|-----|------|--------------------------|---------------------------|
| | Bank A/c To 10% Debenture Application A/c (Application money Rs. 50 per debentures rece | Dr. | | 1,00,000 | 1,00,000 |
| | 10% Debenture Application A/c To 10% Debentures A/c (Transfer of application money to debenture account) | Dr. | | 1,00,000 | 1,00,000 |
| | 10% Debenture Allotment A/c To 10% Debentures A/c To Securities Premium Reserve A/c (Allotment money due on debentures including the premium) | Dr. | | 1,20,000 | 1,00,000 20,000 |
| | Bank A/c To 10% Debenture Allotment A/c (Allotment money received) | Dr. | | 1,20,000 | 1,20,000 |

XYZ Industries Limited Balance Sheet as at ———

| Particulars | Note | Amount |
|----------------------------|------|----------|
| × × | No. | (Rs.) |
| I. Equity and Liabilities | | |
| 1. Shareholders' Funds | | |
| Reserve and Surplus | 1 | 20,000 |
| 2. Non-current Liabilities | | |
| Long-term borrowings | 2 | 2,00,000 |
| | | 2,20,000 |
| II. Assets | | |
| Current Assets | | |
| Cash and cash equivalents | | 2,20,000 |

Notes to Accounts

| Particulars | Amount |
|---------------------------------------|----------|
| | (Rs.) |
| Reserve and surplus | |
| Securties Premium Reserve | 20,000 |
| 2. Long-term borrowings | |
| 2,000, 10% debentures of Rs. 100 each | 2,00,000 |
| 3. Cash and cash equivalents | |
| Cash at bank | 2,20,000 |
| | |

Illustration 4

A Limited issued 5,000, 10% debentures of Rs. 100 each, at a premium of Rs. 10 per debenture payable as follows:

On application Rs. 25

On allotment Rs. 45 (including premium)

On first and final call Rs. 40

The debentures were fully subscribed and all money was duly received. Record the necessary entries in the books of the company. Show how the amounts will appear in the balance sheet.

Solution:

Books of A Limited Journal

| Date | Particulars | L.F. | Debit | Credit |
|------|--|------|----------|----------|
| | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| | Bank A/c Dr. | | 1,25,000 | |
| | To 10% Debenture Application A/c | | | 1,25,000 |
| | (Application money on 10% debentures received) | | | |
| | 10% Debenture Application A/c Dr. | | 1,25,000 | 1,25,000 |
| | To 10% Debentures A/c (Transfer of application money on allotment) | | | 1,25,000 |
| | 10% Debenture Allotment A/c Dr. | | 2,25,000 | |
| | To 10% Debentures A/c | | | 1,75,000 |
| | To Securities Premium Reserve A/c | | | 50,000 |
| | (Allotment money of due on debentures including the premium) | | | |

| Bank A/c To 10% Debenture Allotment A/c (Allotment money received) | Dr. | 2,25,000 2,25,000 |
|---|-----|-------------------|
| 10% Debenture First & Final Call A/c To 10% Debentures A/c (First and final call money due on debentures) | Dr. | 2,00,000 2,00,000 |
| Bank A/c To 10% Debenture First & Final Call A/c (First and final call money received) | Dr. | 2,00,000 2,00,000 |

A Limited Balance Sheet as at ———

| Particulars | Note | Amount |
|------------------------------|------|----------|
| | No. | (Rs.) |
| I. Equity and Liabilities | | |
| 1. Shareholders' Funds | | |
| a) Reserve and Surplus | 1 | 50,000 |
| 2. Non-current Liabilities | | |
| Long term borrowings | 2 | 5,00,000 |
| Total | | 5,50,000 |
| II. Assets | | |
| 1. Current assets | | |
| a) Cash and cash equivalents | | 5,50,000 |

Notes to Accounts

| | Particulars | Amount |
|----|---------------------------------------|----------|
| | | (Rs.) |
| 1. | Reserve and surplus | |
| | Securities Premium Reserve | 50,000 |
| 2. | Long-term borrowings | |
| | 5,000, 10% debentures of Rs. 100 each | 5,00,000 |
| | | |

2.5 Over Subscription

When the number of debentures applied for is more than the number of debentures offered to the public, the issue is said to be over subscribed. A company, however, cannot allot more debentures than it has invited for subscription. The excess money received on over subscription may, however, be retained for adjustment towards allotment and the respective calls to be made. But the money received from applicants to whom no debentures have been allotted, will be refunded to them.

Illustration 5

X Limited Issued 10,000, 12% debentures of Rs. 100 each payable Rs. 40 on application and Rs. 60 on allotment. The public applied for 14,000 debentures. Applications for 9,000 debentures were accepted in full; applications for 2,000 debentures were allotted 1,000 debentures and the remaining applications, were rejected. All money was duly received. Journalise the transactions.

Solution:

Books of X Limited Journal

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|------------|--------------------------|--------------------------------|
| | Bank A/c Dr To 12% Debenture Application A/c (Receipt of application money on 14,000 debentures) | | 5,60,000 | 5,60,000 |
| | 12% Debenture Application A/c Dr To 12% Debentures A/c To Debentures Allotment A/c To Bank A/c (Debenture Application money transferred to Debenuture A/c, Excess application money credited to Debenture Allotment account and money refunded on rejected application) | D . | 5,60,000 | 4,00,000 40,000 1,20,000 |
| | 12% Debenture Allotment A/c Dr To 12% Debentures A/c (Amount due on allotment on 10,000 debentures | | 6,00,000 | 6,00,000 |
| | Bank A/c Dr To Debenture Allotment A/c (Allotment money received) | | 5,60,000 | 5,60,000 |

2.6 Issue of Debentures for Consideration other than Cash

Sometimes a company purchased assets from vendors and instead of making payment in cash issues debentures for consideration thereof. Such issue of debentures is called debentures issued for consideration other than cash. In that case also, the debentures may be issued at par, at a premium or at a discount then entries made in such a situation are similar to those of the shares issued for consideration other than cash, which are as follows:

Dr

1. On purchase of assets

Sundry Assets A/c To Vendor's

2. On issue of debentures

(a) At par

Vendors Dr.
To Debentures A/c

(b) At premium

Vendors Dr.

To Debentures A/c

To Securities Premium Reserve A/c

(c) At a discount

Vendors Dr. Discount on Issue of Debenture A/c Dr.

To Debentures A/c

Illustration 6

Aashirward Company Limited purchased assets of the book value of Rs. 2,00,000 from another company and agreed to make the payment of purchase consideration by issuing 2,000, 10% debentures of Rs. 100 each.

Record the necessary journal entries.

Solution:

Books of Aashirwad Company Limited Journal

| Date | Particulars | | L.F. | Debit Amount | Credit Amount |
|------|--|-----|------|-----------------|------------------|
| | | | | (Rs.) | (Rs.) |
| | Sundry Assets A/c To Vendors (Assets purchased from vendors) | Dr. | | 2,00,000 | 2,00,000 |
| | Vendors To 10% Debentures A/c (Allotment of debentures to vendors as purchase consideration) | Dr. | | 2,00,000 | 2,00,000 |

Illustration 7

Rai Company purchased assets of the book value of Rs. 2,20,000 from another company and agreed to make the payment of purchase consideration by issuing 2,000, 10% debentures of Rs. 100 each at a premium of 10%.

Record necessary journal entries.

Solution:

Books of Rai Company Limited Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|-----|------|--------------------------|---------------------------|
| | Sundry Assets A/c To Vendors (Assets purchased from vendors) | Dr. | | 2,20,000 | 2,20,000 |
| | Vendors To 10% Debentures A/c To Securities Premium Reserve A/c (Allotment of 2,000 debentures of Rs. 100 e at a premium of 10% as purchase considerat | | | 2,20,000 | 2,00,000 20,000 |

Illustration 8

National Packaging Company purchased assets of the value of Rs. 1,90,000 from another company and agreed to make the payment of purchase consideration by issuing 2,000, 10% debentures of Rs. 100 each at a discount of 5%.

Record necessary journal entries.

Solution:

Books of National Packaging Company Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|------------|------|--------------------------|---------------------------|
| | Sundry Assets A/c To Vendors (Assets purchased from vendors) | Dr. | | 1,90,000 | 1,90,000 |
| | Vendors Discount on Issue of Debenture A/c To 10% Debentures A/c (Allotment of 2,000 debentures of Rs. 100 each at a discount of 5% as purchase consideration) | Dr. Dr. | | 1,90,000 10,000 | 2,00,000 |

Illustration 9

G.S. Rai company ltd. purchased assets of the book value of Rs. 99,000 from another firm. It was agreed that purchase consideration be paid by issuing 11% debentures of Rs. 100 each. Assume debentures have been issued.

- 1. At par
- 2. At discount of 10%, and
- 3. At a premium of 10%.

Record necessary journal entries.

Solution:

Books of G.S. Rai Company Limited Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------------------|---|--------------------|------|--------------------------|---------------------------|
| | Sundry Assets A/c To Vendors (Assets purchased from vendors) | Dr. | | 99,000 | 99,000 |
| In Ist Case | Vendors To 10% Debentures A/c (Allotment of debentures to vendors as purchase consideration) | Dr. | | 99,000 | 99,000 |
| In IInd Case | | Dr. Dr. d at | | 99,000 11,000 | 1,10,000 |
| In IIIrd Case | Vendors To 11% Debentures A/c To Securities Premium Reserve A/c (Allotment of 900 debentures of Rs. 100 issued a premium of 10% to the vendors) | Dr. at | | 99,000 | 90,000 9,000 |

Sometimes a company may purchase the assets as well as takeover its liabilities of another concern. It happens usually in case of purchase of the whole business of the other concern. In such a situation, the purchase consideration will be equal to the value of net assets (Assets - Liabilities) taken over, and if the whole amount of the consideration is paid by issue of debentures, the journal entry for purchase of business will be:

Sundry Assets A/c

Dr.

To Sundry Liabilities A/c
To Vendors

(Purchase of the Vendors' business)

Illustration 10

Romi Ltd. acquired assets of Rs. 20 lakh and took over creditors of Rs. 2 lakh from Kapil Enterprises. Romi Ltd., issued 8% debentures of Rs 100 each at par as purchase consideration. Record necessary journal entries in the books of Romi Ltd.

Solution:

Books of Romi Ltd. Journal

| Date | Particulars | L.F. | Debit | Credit |
|------|---|------|-----------------|-----------------------|
| | | • | Amount (Rs.) | Amount (Rs.) |
| | Sundry Assets A/c Dr. | | 20,00,000 | |
| | To Kapil Enterprises To Sundry Creditors A/c (Purchase of business from Kapil Enterprises) | D) | | 18,00,000 2,00,000 |
| | Kapil Enterprises Dr. To 8% Debentures A/c (Issue of 18,000, 8% debentures of Rs. 100 each) | | 18,00,000 | 18,00,000 |

In case of the whole business being taken over if the amount of debentures issued is more than the amount of the net assets taken over, the difference (excess) will be treated as value of goodwill and the same shall also be debited while passing the journal entry for the purchase of vender's business (see Illustration 11). But if it is the other way round, i.e., the value of debentures is less than the value of the net assets taken over the difference will be credited to capital Reserve accounts (See Illustration 12).

Illustration 11

Blue Prints Ltd., purchased building worth Rs.1,50,000, machinery worth Rs.1,40,000 and furniture worth Rs.10,000 from XYZ Co., and took over its liabilities of Rs. 20,000 for a purchase consideration of Rs. 3,15,000. Blue Prints Ltd., paid the purchase consideration by issuing 12% debentures of Rs.100 each at a premium of 5%. Record necessary journal entries.

Solution:

Books of Blue Prints Limited Journal

| Particulars | | L.F. | Debit | Credit |
|---|--|--|--|---|
| | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| Building A/c | Dr. | | 1,50,000 | |
| Plant & Machinery A/c | Dr. | | 1,40,000 | |
| Furniture A/c | Dr. | | 10,000 | |
| Goodwill A/c ¹ | Dr. | | 35,000 | |
| To Liabilities (Sundry) | | | | 20,000 |
| To XYZ Co. | | | | 3,15,000 |
| (Purchase of assets and taking over of liab | oilities | | | |
| of XYZ Co.) | | | | |
| XYZ Co | Dr | 1 | 3 15 000 | |
| | ы. | | 0,10,000 | 3,00,000 |
| · | | • (| | 15,000 |
| | of 5%) | | | 10,000 |
| (135de of 0,000 dependence at a premium t | 71 0 70) | | | |
| | Building A/c Plant & Machinery A/c Furniture A/c Goodwill A/c ¹ To Liabilities (Sundry) To XYZ Co. (Purchase of assets and taking over of liab of XYZ Co.) XYZ Co. To 12% Debentures A/c To Securities Premium Reserve A/c | Building A/c Dr. Plant & Machinery A/c Dr. Furniture A/c Dr. Goodwill A/c 1 Dr. To Liabilities (Sundry) To XYZ Co. (Purchase of assets and taking over of liabilities of XYZ Co.) XYZ Co. Dr. To 12% Debentures A/c | Building A/c Dr. Plant & Machinery A/c Dr. Furniture A/c Dr. Goodwill A/c 1 Dr. To Liabilities (Sundry) To XYZ Co. (Purchase of assets and taking over of liabilities of XYZ Co.) XYZ Co. Dr. To 12% Debentures A/c To Securities Premium Reserve A/c | Building A/c Dr. 1,50,000 Plant & Machinery A/c Dr. 1,40,000 Furniture A/c Dr. 10,000 Goodwill A/c Dr. 10,000 To Liabilities (Sundry) To XYZ Co. (Purchase of assets and taking over of liabilities of XYZ Co.) XYZ Co. Dr. 3,15,000 To 12% Debentures A/c To Securities Premium Reserve A/c |

Note:

- 1. Since the purchase consideration is more than net assets taken over, the difference has been debited to goodwill account.
- 2. No. of debentures issued
- = <u>Purchase Consideration</u> Issue Price of a Debenture
- = Rs. 3,15,000 = 3,000 105

Illustration 12

A Limited took over the assets of Rs. 3,00,000 and liabilities of Rs. 10,000 from B & Co. Ltd., for an agreed purchase consideration of Rs. 2,70,000 to be satisfied by issue of 15% debentures of Rs. 100 at 20% premium. Show the journal entries in the journal of *A Limited*.

Solution:

Books of A Limited Journal

| Date | Particulars | L.F. | Debit | Credit |
|------|---|------|----------|----------|
| | · · | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| | Sundry Assets A/c Dr | | 3,00,000 | |
| | To Sundry Liabilities A/c | | | 10,000 |
| | To B & Co. Ltd. | | | 2,70,000 |
| | To Capital Reserve | | | 20,000 |
| | (Purchased assets and took over liabilities from B Lt | 1.) | | |

| B & Co. Ltd. | Dr. | 2,70,000 | | ١ |
|---|--------|----------|----------|---|
| To 15% Debentures A/c | | | 2,25,000 | |
| To Securities Premium Reserve A/c | | | 45,000 | |
| (Issue of 2,250 debentures of Rs 100 eac premium of 20%) | h at a | | | |

Do it Yourself

- 1. Amrit Company Limited purchased assets of the value of Rs. 2,20,000 from another company and agreed to make the payment of purchase consideration by issuing 2,000, 10% debentures of Rs.100 each at a premium of 10%. Record necessary journal entries.
- 2. A company purchased assets of the value of Rs.1,90,000 from another company and agreed to make the payment of purchase consideration by issuing 2,000, 10% debentures of Rs. 100 each at a discount of 5%. Record necessary journal entries
- 3. Rose Bond Limited purchased a business for Rs. 22,00,000. Purchase Price was paid by 6% debentures. Debentures of Rs. 20,00,000 were issued at a premium of 10% for the purpose. Record necessary journal entries.
- 4. Nikhil and Ashwin Limited bought business of Agarwal Limited consisting sundry assts of Rs. 3,60,000, sundry creditors Rs.1,00,000 for a consideration of Rs. 3,07,200. It issued 14% debentures of Rs. 100 each fully paid at a discount of 4% in satisfaction of purchase consideration. Record necessary journal entries.

Illustration 13

Suvidha Ltd. purchased machinery worth Rs.1,98,000 from Suppliers Ltd. The payment was made by issue of 12% debentures of Rs.100 each.

Pass the necessary journal entries for the purchase of machinery and issue of debentures when:

- (i) Debentures are issued at par;
- (ii) Debentures are issued at 10% discount: and
- (iii) Debentures are issued at 10% premium

Solution:

Books of Suvidha Ltd. Journal

| Date | Particulars | | L.F. | Debit | Credit |
|------|-----------------------|-----|------|----------|----------|
| | | | | Amount | Amount |
| | | | | (Rs.) | (Rs.) |
| | Machinery A/c | Dr. | | 1,98,000 | |
| | To Suppliers Ltd. | | | | 1,98,000 |
| | (Machinery purchased) | | | | |

| Case (i) | When debentures are issued at par: | | | |
|------------|---|-----|----------|----------|
| | Suppliers Ltd. | Dr. | 1,98,000 | |
| | To 12% Debentures A/c | | | 1,98,000 |
| | (12% Debentures issued to Suppliers Ltd.) | | | |
| Case (ii) | When debentures are issued at 10% discount | : | | |
| | Suppliers Ltd. | Dr. | 1,98,000 | |
| | Discount on Issue of Debentures A/c | Dr. | 22,000 | |
| | To 12% Debentures A/c | | | 2,20,000 |
| | (12% Debentures issued to Suppliers Ltd. at 10% discount) | | | |
| Case (iii) | When debentures are issued at 10% premium | ι: | | |
| | Suppliers Ltd. | Dr. | 1,98,000 | |
| | To 12% Debentures A/c | | 0 | 1,80,000 |
| | Securities Premium Reserve A/c | | | 18,000 |
| | (12% Debentures issued to Suppliers Ltd. | | | |
| | at 10% premium) | • | 7 | |

Workings:

(a)

| | | Rs. |
|---|-------|------------------|
| Face value of debenture | | 100 |
| Less: Discount 10% | | <u>10</u> |
| Value at which debenture issued | | 90 |
| Number of debentures issued in case of 10% discount | = Rs | 90 |
| | = 2, | 200 debenture |
| (b) | | |
| | | Rs. |
| Face value of debenture | | 100 |
| Add: Premium 10% | | <u>10</u> |
| Value at which debenture issued | | <u>110</u> |
| Number of debentures issued in case of 10% premi | ium = | Rs.1,98,000 |
| | = | 1,800 Debentures |

2.7 Issue of Debentures as a Collateral Security

A collateral security may be defined as a subsidiary or secondary or additional security besides the primary security when a company obtains a loan or overdraft from a bank or any other financial Institution. It may pledge or mortgage some assets as a secured loan against the said loan. But the lending

institutions may insist on additional assets as collateral security so that the amount of loan can be realised in full with the help of collateral security in case the amount from the sale of principal security falls short of the loan money. In such situation, the company may issue its own debentures to the lenders in addition to some other assets already pledged. Such an issue of debentures is known as 'Debentures issued as Collateral Security'.

If the company fails to repay the loan along with interest, the lender is free to receive his money from the sale of primary security and if the realisable value of the primary security falls short to cover the entire amount, the lender has the right to invoke the benefit of collateral security whereby debentures may either be presented for redemption or sold in the open market.

Debentures issued as collateral security can be dealt within two ways in the books of the company:

First Method

No entry is made in the books of accounts since no liability is created by such issue. However, on the liability side of the balance sheet, below the item of loan, a note to the effect that it has been secured by issue of debentures as a collateral security is appended. For example, X Company has issued 9%, 10,000 debentures of Rs.100 each for a loan of Rs.10, 00,000 taken from a bank. This fact may be shown in the balance sheet as under:

X Company Balance Sheet as at

| Particulars | Note | Amount |
|----------------------------|------|-----------|
| | No. | (Rs.) |
| I. Equity and Liabilities | | |
| 1. Non-current Liabilities | | |
| Long-term borrowings | 1 | 10,00,000 |
| | | |

Notes to Accounts

| Particulars Particulars | Amount |
|--|---------------------|
| × | (Rs.) |
| Long-term borrowings | |
| Bank Loan | |
| (Secured by issue of 10,000, 10% debenture | es 10,00,000 |
| of Rs. 10 each as Collatoral Security) | |

Second Method

The issue of debentures as a collateral security may be recorded by means of journal entry as follows:

Journal Entries

i. Issue of 10,000, 9% debentures of Rs. 100 each as collateral security for bank loan of Rs. 10,00,000.

Debenture Suspense A/c

Dr.

10,00,000

To 9% Debentures A/c

10.00.000

ii. For cancellation of 9% debentures as collateral security on repayment of bank loan.

Debenture Suspense account will appear as a deduction from the debentures in notes to accounts of long-term borrowings. When loan is repaid the above entry will be cancelled by a reverse entry:

9% Debentures A/c

Dr.

10,00,000

To Debenture Suspense A/c

10.00.000

Balance Sheet of X Co. _____(Extract)

| Particulars | Note No. | Amount (Rs.) |
|---|-------------|-----------------|
| I. Equity and Liabilities 1. Non-current Liabilities Long term borrowings | G | 10,00,000 |

Notes to Accounts

| | Particulars | | Amount |
|----|--------------------------|-----------|-----------|
| | | (Rs.) | (Rs.) |
| 1. | Long term borrowings | | 10,00,000 |
| | Bank loan | | |
| | 10,000, 9% debentures of | | |
| | Rs. 100 each | 10,00,000 | |
| | Less: Debenture suspense | 10,00,000 | _ |
| | | | 10,00,000 |
| | | 1 | |

Illustration 14

A company took a loan of Rs. 10,00,000 from Punjab National Bank and issued 10% debentures of Rs. 12,00,000 of Rs. 100 each as a collateral security. Explain how you will deal with the issue of debentures in the books of the company.

Solution:

First Method:

Balance Sheet (Extract)

| | • | |
|----------------------------|------|-----------|
| Particulars | Note | Amount |
| | No. | (Rs.) |
| I. Equity and Liabilities | | |
| 1. Non-current Liabilities | | |
| Long-term borrowings | 1 | 10,00,000 |
| | | |

Notes to Accounts

| THE COURT OF THE COURT OF | |
|--------------------------------|-----------|
| Particulars | Amount |
| | (Rs.) |
| Long-term borrowings | |
| Bank loan | 10,00,000 |
| (Secured by issue of 12,000, | |
| 10% debentures of Rs. 100 each | |
| as Collatoral Security | |
| | |

Second Method:

Journal Entries

| Date | Particulars | L.F. | Debit Amount | Credit Amount |
|------|--|---------|-----------------|------------------|
| | | <i></i> | (Rs.) | (Rs.) |
| | Debenture Suspense A/c | r. | 12,00,000 | |
| | To 10% Debentures A/c | | | 12,00,000 |
| | (12,000 debenture of Rs. 100 each issued as collateral security to P.N.Bank) | | | |

Balance Sheet (Extract)

| Darance Sheet | (DALIAC | , , |
|----------------------------|---------|-----------|
| Particulars | Note | Amount |
| | No. | (Rs.) |
| I. Equity and Liabilities | | |
| 1. Non-current Liabilities | | |
| Long-term borrowings | 1 | 10,00,000 |
| | | |

Notes to Accounts

| Trotes to freedants | | |
|---------------------------|-----------|-----------|
| Particulars | | Amount |
| | (Rs.) | (Rs.) |
| Long-term borrowings | | |
| Secured Loan from | | 10,00,000 |
| PNB | | |
| 12,000, 10% debentures of | 12,00,000 | |
| Rs. 100 each | | |
| Less: Debenture | | |
| Suspense | 12,00,000 | _ |
| _ | | 10,00,000 |
| | l | |

Do it Yourself

1. Raghuveer Limited issued Rs. 10,00,000, 8% debentures as follows to:

Rs

| 1. | Sundry Subscribers for Cash at 90% | 5,50,000 |
|----|--------------------------------------|----------|
| 2. | Vendor of Machinery for Rs. 2,00,000 | 2,00,000 |
| | in satisfaction of his claim | |

3. Bankers as Collateral Security for a bank loan 2,50,000 worth Rs. 20,00,000 for which principal security is Business Premises worth Rs. 22,50,000.

The issue (1) and (2) are redeemable at the end of 10 years at par. State how the debenture will be dealt with while preparing the balance sheet of a company.

- 2. Hassan Limited took a loan of Rs. 30,00,000 from a bank against primary security worth Rs. 40,00,000 and issued 4,000, 6% debentures of Rs. 100 each as a collateral security. The company again after one year took a loan of Rs. 50,00,000 from bank against Plant as primary security and deposited 6,000, 6% debentures of Rs. 100 each as collateral security. Record necessary journal entries and prepare balance sheet of the company.
- 3. Meghnath Limited took a loan of Rs. 1,20,000 from a bank and deposited 1,400, 8% debentures of Rs. 100 each as collateral security along with primary security worth Rs. 2 lakh. Company again took a loan of Rs. 80,000 after two months from a bank and deposited 1,000, 8% debentures of Rs. 100 each as collateral security. Record necessary journal entries and prepare balance sheet of the company.

2.8 Terms of Issue of Debentures

When a company issues debentures, it usually mentions the terms on which they will be redeemed on their maturity. Redemption of debentures means discharge of liability on account of debentures by repayment made to the debenture holders. Debentures can be redeemed either at par or at a premium.

Depending upon the terms and conditions of issue and redemption of debentures, the following six situations are commonly found in practice.

- (i) Issued at par and redeemable at par
- (ii) Issued at discount and redeemable at par
- (iii) Issued at a premium and redeemable at par
- (iv) Issued at par and redeemable at a premium
- (v) Issued at a discount and redeemable at a premium
- (vi) Issued at a premium and redeemable at a premium

In all the above six cases, the following journal entries will be passed:

(Allotment of debentures at par and

redeemade at a premium)

Issue at discount and redemption at premium

Bank A/c

To Debenture Application & Allotment A/c

(Receipt of application money)

Debenture Application & Allotment A/c

Loss on Issue of Debentures A/c

Dr

Dr

Dr. (with discount on issue plus premium on redemption)

(with premium on redemption)

To Debentures A/c (with nominal value of debenture)

To Premium on Redemption of Debentures A/c

(Allotment of debentures at a discount

and redeemable at premium)

Issued at a premium and redeemable at premium

Bank A/c Dr.

To Debenture Application & Allotment A/c

(Receipt of application money)

Debenture Application & Allotment A/c

Loss on Issue of Debentures A/c

To Securities Premium Reserve A/c

To Premium on Redemption of

Debentures A/c

To Debentures A/c

Dr.

Dr. (with premium on redemption) (with nominal value of debenture) (with premium on issue) (with premium on redemption)

- Notes: 1. When debentures are redeemable at a premium, the premium payable on redemption is debited to 'Loss on Issue of Debentures A/c'. It may be noted that when debentures are issued at a discount and are redeemable at a premium, the amount of discount on issue is also debited to 'Loss on Issue of Debentures'. It may be noted that when the debentures are issued at a discount and are redeemable at par, the amount debited to 'Discount on Issue of Debentures A/c' as usual.
 - 2. Premium on redemption is a liability of a company payable in future. It is a provision and is shown under the head Non-current liabilities under subhead 'Long-term Borrowings' until debentures are redeemed.

Illustration 15

Give Journal entries for the following:

Issue of Rs. 1,00,000, 9% debentures of Rs. 100 each at par and redeemable at par.

- 2. Issue of Rs. 1,00,000, 9% debentures of Rs. 100 each at premium of 5% but redeemable at par.
- 3. Issue of Rs. 1,00,000, 9% debentures of Rs. 100 each at discount of 5% repayable at par.
- 4. Issue of Rs. 1,00,000, 9% debentures of Rs. 100 each at par but repayable at a premium of 5%.
- 5. Issue of Rs. 1,00,000, 9% debentures of Rs. 100 each at discount of 5% but redeemable at premium of 5%.
- 6. Issue of Rs. 1,00,000, 9% debentures of Rs. 100 each at premium of 5% and redeemable at premium of 5%.

Solution:

Journal

| Date | Particulars | L.1 | F. Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|--|------------|-----------------------------|---------------------------|
| 1 | Bank A/c I To 9% Debenture Application & Allotment A, (Debentures Application money received) | Or. /c | 1,00,000 | 1,00,000 |
| | Debenture Application & Allotment A/c To 9% Debentures A/c (Application money transferred to Debentures Account) | Or. | 1,00,000 | 1,00,000 |
| 2 | Bank A/c To 9% Debenture Application & Allotment A, (Debentures application money received) | Or. /c | 1,05,000 | 1,05,000 |
| | Debenture Application & Allotment A/c To 9% Debentures A/c To Securities Premium Reserve A/c (Debentures application money transferred to Debentures & Securities Premium account) | Or. | 1,05,000 | 1,00,000 5,000 |
| 3 | Bank A/c To 9% Debenture Application & Allotment A (Debentures application money received) | Or. A/c | 95,000 | 95,000 |
| | - · · - · · · · · · · · · · · · · · · | Or. Or. | 95,000 5,000 | 1,00,000 |

| 4 | Bank A/c To 9% Debenture Application & Allotment (Debentures Application money received) | Dr. t A/c | 1,00,000 | 1,00,000 |
|---|--|--------------|-------------------|----------------------------|
| | Debenture Application & Allotment A/c Loss on Issue of Debentures A/c To 9% Debentures A/c To Premium on Redemption of Debentures (Debentures Application money transferred to Debentures account) | Dr. Dr. | 1,00,000 5,000 | 1,00,000 5,000 |
| 5 | Bank A/c To 9% Debenture Application & Allotment (Debentures Application money received) | Dr. A/c | 95,000 | 95,000 |
| | Debenture Application & Allotment A/c Loss on Issue of Debentures A/c To 9% Debentures A/c To Premium on Redemption of Debentures (Debentures application money transferred to debentures and Premium on debenture acc | | 95,000 10,000 | 1,00,000 5,000 |
| 6 | Bank A/c To 9% Debenture Application & Allotment (Debentures Application money received) | Dr. A/c | 1,05,000 | 1,05,000 |
| | Debenture Application & Allotment A/c Loss on Issue of Debentures A/c To 9% Debenture A/c To Premium on Redemption of Debentures To Securities Premium Reserve A/c (Debenture application money transferred to debentures account) | Dr. Dr. | 1,05,000 5,000 | 1,00,000 5,000 5,000 |

You are required to pass the journal entries relating to the issue of the debentures in the books of X Ltd., under the following cases:

(a) 120, 8% debentures of Rs. 1,000 each are issued at 5% discount and repayable at par. Balance in Securities Premium Reserve is Rs. 10,000.

- (b) 150, 7% debentures of Rs. 1,000 each are issued at 5% discount and repayable at premium of 10%. Balance in Securities Premium Reserve is Rs. 20,000.
- (c) 80, 9% debentures of Rs. 1,000 each are issued at 5% premium.
- (d) Another 400, 8% debentures of Rs. 100 each are issued as collateral security against a loan of Rs. 40,000.

Solution:

(a)

(b)

Books of X Ltd. Journal

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|------|--------------------------|---------------------------|
| | Bank A/c Dr. To Debenture Application and Allotment A/c (Debenture application money received) | | 1,14,000 | 1,14,000 |
| | Debenture Application and Allotment A/c Dr. Loss on Issue of Debentures A/c Dr. To 8% Debentures A/c (Debentures application money transferred to | | 1,14,000 6,000 | 1,20,000 |
| | Debentures account) Securities Premium Reserve A/c. Dr. To Loss on Issue of Debentures A/c. (Loss on issue of debentures written-off) | | 8,000 | 8,000 |

Books of X Ltd. Journal

| Date | Particulars | L.F. | Debit | Credit |
|------|--|----------|----------|----------|
| | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| | Bank A/c Dr | | 1,42,500 | |
| | To Debenture Application and Allotment A/c | | | |
| | (Debenture application money received) | | | 1,42,500 |
| | Debenture Application and Allotment A/c Dr | | 1,42,500 | |
| | Loss on Issue of Debentures A/c Dr | | 22,500 | |
| | To 8% Debentures A/c | | | 1,50,000 |
| | To Premium on Redemption of Debenture A/o | | | 15,000 |
| | (Debentures application money transferred to Debentures A/c) | | | |
| | Security Premium Reserve A/c Dr | \dashv | 20,000 | |
| | Statement of Profit and Loss | | 2,500 | |
| | To Loss on Issue of debentures A/c (Loss on issue of debentures written-off) | | | 22,500 |
| | (2000 off 100 ac of accountation written on) | | | |

Books of X Ltd.

(c)

| Date | Particulars | L.F. | Debit | Credit |
|------|--|------|--------|--------|
| | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| | Bank A/c Dr. | | 84,000 | |
| | To Debenture Application and Allotment A/c | | | 84,000 |
| | (Debenture application money received) | | | |
| | Debenture Application and Allotment A/c Dr. To 9% Debentures A/c | | 84,000 | 80,000 |
| | To Securities Premium Reserve A/c | | | 4,000 |
| | (Debentures application money transferred to | | 4 | |
| | Debentures A/c and securities premium reserve A/ | c) | | |

Books of X Ltd.

(d)

| Date | Particulars | L.F. | Debit | Credit |
|------|---|------|--------|--------|
| | | 1 | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| | Debenture Suspense A/c Dr. | | 40,000 | |
| | To 8% Debentures A/c | | | 40,000 |
| | (Issue of 400, 8% debentures of Rs. 100 each as | 1 | | |
| | collateral security against a loan of Rs. 40,000) | 1 | | |

Do it Yourself

- 1. Nena Limited issued 50,000, 10% debentures of Rs. 100 each on the basis of the following conditions:
 - a. Debentures issued at par and redeemable at par.
 - b. Debentures issued at discount @ 5% and redeemable at par.
 - c. Debentures issued at premium @ 10% and redeemable at par.
 - d. Debentures issued at par and redeemable at premium @ 10%.
 - e. Debentures issued at discount of 5% and redeemable at a premium of 10%.
 - f. Debentures issued at premium of 6% and redeemable at a premium of 4%. Record necessary journal entries in the above mentioned cases at the time of issue and redemption of debentures.
- 2. Record necessary journal entries in each of the following cases:
 - a. 27,000, 7% debentures of Rs. 100 each issued at par, redeemable atpar.
 - b. 25,000, 7% debentures of Rs. 100 each issued at par redeemable at 4% premium.
 - c. 20,000, 7% debentures of Rs. 100 each issued at 5% discount and redeemable at par.
 - d. 30,000, 7% debentures of Rs. 100 each issued at 5% discount and redeemable at $2\frac{1}{2}$ % premium.
 - e. 35,000, 7% debentures of Rs. 100 each issued at 4% premium and redeemable at premium of 5%.

2.9 Interest on Debentures

When a company issues debentures, it is under an obligation to pay interest thereon at fixed percentage (half yearly) periodically until debentures are repaid. This percentage is usually as part of the name of debentures like 8% debentures, 10% debentures, etc., and interest payable is calculated at the nominal value of debentures.

Interest on debenture is a charge against the profit of the company and must be paid whether the company has earned any profit or not. According to Income Tax Act, 1961, a company must deduct income tax at a prescribed rate from the interest payable on debentures if it exceeds the prescribed limit. It is called Tax Deducted at Source (TDS) and is to be deposited with the tax authorities. Of course, the debentureholders can adjust this amount against the tax due from them.

2.9.1 Accounting Treatment

The following journal entries are recorded in the books of a company in connection with the interest on debentures:

1. When interest is due

Debenture Interest A/c

Dr.

To Income Tax payable A/c

To Debentureholders A/c

(Amount of interest due on debenture and tax deducted at source)

2. For payment of interest to debentureholders

Debentureholders A/c

Dr.

To Bank A/c

(Amount of interest paid to debentureholders)

3. On transfer debenture Interest Account to statement of Profit and Loss

Statement of Profit and Loss

Dr

To Debenture Interest A/c

(Debenture interest transferred to profit and loss A/c)

4. On payment of tax deducted at source to the Government

Income Tax Payable A/c

Dr.

To Bank A/c

(Payment of tax deducted at source on interest on debentures)

Illustration 17

A Ltd., issued 2,000, 10% debentures of Rs. 100 each on April 01, 2016 at a discount of 10% redeemable at a premium of 10%.

Give journal entries relating to the issue of debentures and debenture interest for the period ending March 31, 2017 assuming that interest was paid half yearly on September 30 and March 31 and tax deducted at source is 10%.

Solution:

Book of A Ltd. Journal

| | | T | | |
|-----------------|---|------|--------------------------|---------------------------|
| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
| 2016 Apr. 01 | Bank A/c Dr. To 10% Debenture Application & Allotment A/c (Application money received on 2,000, 10% debentures) | | 1,80,000 | 1,80,000 |
| Apr. 01 | 10% Debentures Application & Allotment A/c Dr. Loss on Issue of Debenture A/c Dr. To 10% Debentures A/c To Premium on Redemption of Debentures A/c (Allotment of debentures at a discount of 10%) and redeemable at a premium of 10%) | | 1,80,000 40,000 | 2,00,000 20,000 |
| Sept.30 | Debenture Interest A/c Dr. To Debentureholders A/c To Income Tax Payable A/c (Interest due for 6 months and tax deducted at source) | 5 | 10,000 | 9,000 1,000 |
| | Income Tax payable A/c Dr. Bank A/c (Tax deducted at source paid to the government) | | 1,000 | 1000 |
| Sept. 30 | Debentureholders A/c Dr. To Bank A/c (Payment of interest) | | 9,000 | 9,000 |
| March 31 | Debenture interest A/c Dr. To Debentureholders A/c To Income Tax Payable A/c (Interest due for 6 months and tax deducted at source) | | 10,000 | 9,000 1,000 |
| March 31 | Debenturesholders A/c To Bank A/c (Payment of interest) | | 9,000 | 9,000 |
| March 31 | Income Tax Payable A/c Dr. To Bank A/c (Paid tax deducted at source to the government |) | 1,000 | 1,000 |
| March 31 | Statement of Profit and Loss Dr. To Debenture Interest A/c (Debenture interest transferred to profit and loss account) | | 20,000 | 20,000 |

Do it Yourself

- 1. Diwakar enterprises Ltd. Issued 10,00,000, 6% debentures on April 1, 2016. Interest is paid on September 30, 2016 and March 31, 2017.
 - Record necessary journal entries assuming that income tax is deducted @10% of the amount of interest.
- 2. Laser India Ltd. Issued 7,00,000, 8% debentures of Rs. 100 each at par. Interest is to be paid on these debentures half-yearly on September 30 and March 31, every year. Record necessary journal entries assuming that income tax is deducted @ 10% of the amount of interest.

2.10 Writing off Discount/Loss on Issue of Debentures

Discount or Loss on issue of debentures is a capital loss and is written-off in the year when debentures are issued. Discount or loss can be written-off from securities premium reserve [section 52(2)]. In case, capital profit do not exist or are inadequate, the amount should be written off against revenue profits of the year. The journal entry passed is—

Securities Premium Reserve A/c Dr. [If exists to the extent of balance] Statement of Profit and Loss Dr.

To Discount/Loss on Issue of Debentures A/c (Discount/Loss on issue of debentures written-off)

For example, on July 01, 2019 a company issued 15,000, 9% debentures of Rs. 100 each at 10% discount. It has a balance of Rs. 1, 00,000 in a securities premium reserve account. The discount on issue of debentures of Rs. 1,50,000 will be written-off in the year ending March 31, 2020 as follows:

Securities Premium Reserve A/c Dr. 1,00,000 Statement of Profit and Loss Dr. 50,000

To Discount on Issue of Debentures A/c 1,50,000 (Discount on Issue of debentures written-off)

Do it Yourself

- 1. X Ltd. issued 2,000, 10% debentures of Rs. 100 each at a discount of 8% on April 01, 2019 which are redeemable. It has balance in Securities Premium Reserve of Rs. 30, 000. Calculate the amount to be written-off from securities Premium Reserve.
- 2. Z Ltd. issued 15,00,000, 10% debentures of Rs. 50 each at premium of 10% payable as Rs. 20 on application and balance on allotment. Debentures are redeemable at par after 6 years All the amount due on allotment was called and duly received. Record necessary entries when premium money is included:
 - (i) in application money
 - (ii) in allotment money

- 3. Z Ltd. issued 5,000,10% debentures of Rs. 100 each at a discount of 10% on 1.4.2019. The debentures are to be redeemed every year by draw of lots 1,000 debentures to be redeemed every year starting on 31.03.2021. Record the necessary journal entries including the payment of interest and writing off the discount on issue of debentures. The interest is payable on September 30 and March 31. Z Ltd. closes its books of accounts on March 31 every year.
- 4. M Ltd. issued 10,000, 8% debentures of Rs. 100 each at a premium of 10% on 1.1.2019. It purchased sundry assets of the value of Rs. 2,50,000 and took over the liabilities of Rs. 60,000 and issued 8% debentures at a discount of 5% to the vendor. On the same date, it took loan from the Bank for Rs. 1,00,000 and issued 8% debentures as Collateral Security. Record the necessary journal entries in the books of M Ltd. and prepare the extract of balance sheet on 31.03.2020. Ignore interest.
- 5. On 1.4.2019, Fast Computers Ltd. issued 20,00,000, 6% debentures of Rs. 100 each at a discount of 4%, redeemable at a premium of 5% after three years. The amount was payable as follows:
 - On application Rs. 50 per debenture, Balance on allotment, Record the necessary journal entries for issue of debentures.
- 6. D Ltd. purchased machinery worth Rs. 2,00,000 from E Ltd. on 1.4.2016. Rs. 50,000 were paid immediately and the balance was paid by issue of Rs. 1,60,000, 12% Debentures in D Ltd. Record the necessary journal entries for recording the transactions in the books of D Ltd.

Rohit Ltd. has issued 50,000, 8% debentures of Rs. 100 each at a discount of 9% on July 1, 2019. The company has balance of Rs. 5,00,000 in securities premium reserve. Pass necessary journal entries for issue of debentures and to write-off discount/Loss on issue of debentures. The debentures are redeemable after 5 years at a premium of 7%.

JOURNAL

| Date | Particulars | L.F. | Debit | Credit |
|---------|--|------|-----------------------|-----------|
| 2019 | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| July 01 | Bank A/c Dr. To Debenture Application and Allotment A/c (Debenture application money received) | | 45,50,000 | 45,50,000 |
| July 01 | Debenture Application and Allotment A/c Dr. Loss on Issue of Debenture A/c Dr. | | 45,50,000 8,00,000 | |

| | To 8% Debenture A/c To Premium on Redemption of Debentur (Debenture application money transferred | | 3,50,000 | 50,00,000 |
|--------|--|------------|----------------------|-----------|
| July (| allotment) Securities Premium Reserve A/c Statement of Profit and Loss To Loss and Issue of Debentures A/c (Loss and Issue of Debentures written-off) | Dr. Dr. | 5,00,000 3,00,000 | 8,00,000 |

IIllastration-19

Fiza Ltd. has issued 15,00,000, 9% debentures of Rs. 20 each at a discount of Rs. 6 per debenture on October 01, 2019. Te company has a balance of Rs. 1,00,000 in securities premium reserve account on the same date. Pass necessary journal entries for issue of debentures and to write off discount on issue of debentures.

JOURNAL

| Date | Particulars | L.F. | Debit | Credit |
|---------|--|------|---------------------|-----------|
| 2019 | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| Oct. 01 | Bank A/c Dr. To Debenture Application and Allotment A/c (Debenture application money received) | | 14,10,000 | 14,10,000 |
| Oct. 01 | Debenture Application and Allotment A/c Dr. Discount on Issue of Debenture A/c Dr. To 9% Debenture A/c (Debenture application money transferred) | | 14,10,000 90,000 | 15,00,000 |
| Oct. 01 | Securities Premium Reserve A/c Dr. To Discount on Issue of Debenture A/c (Discount on issue of debentures written-off) | | 90,000 | 90,000 |

Illastration-20

On May 01, 2019 Amrit Ltd. issued 10,000, 8% debentures of Rs. 100 each of a discount of 10% redeemable of a premium of 10%. The issue was subscribed and amount was duly received. The company had balance of Rs. 70,000 is securities premium reserve on that date.

On January 01, 2020, it issued 1,00,000, equity shares of Rs. 10 each at a premium of Rs. 1 per share. Issue was also fully subscribed. Pass the necessary journal entries.

| Date | Particulars | L.F. | Debit | Credit |
|---------|---|------|--------------------|-----------------------|
| 2019 | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| May 01 | Bank A/c Dr To Debenture Application and Allotment A/c (Debenture application money received) | | 9,00,000 | 9,00,000 |
| | Debenture Application and Allotment A/c. Dr Loss on Issue of Debenture A/c. Dr To 8% Debenture A/c To Premium on Redemption of Debentures A/ (Debenture allotment and Debentures application and Allotment amount transferred) | | 9,00,000 2,00,000 | 10,00,000 1,00,000 |
| Jan. 01 | Bank A/c. Dr To Share Application and Allotment A/c (Share application money received) | | 11,00,000 | 11,00,000 |
| | Share Application and Allotment A/c To Share Capital A/c To Securities Premium Reserve A/c (Shares allotment and Application and Allotment Account adjusted) | | 11,00,000 | 10,00,000 1,00,000 |
| Mar. 01 | Securities Premium Reserve A/c Dr Statement of Profit and Loss Dr To Loss on Issue of Debentures A/c (Loss on Issue of Debentures written off from Securities Premium Reserve to the extent of balance available, balance amount written off from Statement of Profit and Loss) | | 1,70,000 30,000 | 2,00,000 |

Test your Understanding-I

State whether the following statements are True (T) or False (F):

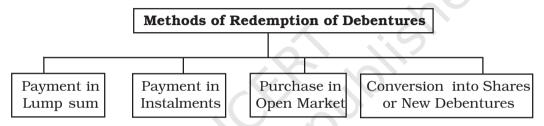
- 1. Debenture is a part of owned capital.
- 2. The payment of interest on debentures is a charge on the profits of the company.
- 3. The debentures cannot be issued at a discount of more than 10% of the face value.
- 4. Redeemable debentures are those debentures, which are payable on the expiry of the specific period.
- 5. Perpetual debentures are also known as irredeemable debentures.
- 6. Debentures cannot be converted into shares.
- 7. Debentures cannot be issued at a premium.
- 8. A collateral security is a subsidiary security.
- 9. Debentures cannot be issued at a premium and redeemable at par.
- 10. Loss on issue of debentures account is a revenue loss.
- 11. Premium on redemption of debentures account is shown under the 'Securities Premium' in the balance sheet.

SECTION II

2.11 Redemption of Debentures

Redemption of debentures refers to extinguishing or discharging the liability on account of debentures in accordance with the terms of issue. In other words redemption of debentures means repayment of the amount of debentures by the company. There are four ways by which the debentures can be redeemed. These are:

- 1. Payment in lump sum
- 2. Payment in instalments
- 3. Purchase in the open market
- 4. By conversion into shares or new debentures.



Payment in lump sum : The company redeems the debentures by paying the amount in lump sum to the debentureholders at the maturity thereof as per terms of issue.

Payment in instalments: Under this method, normally redemption of debentures is made in instalments on the specified date during the tenure of the debentures. The total amount of debenture liability is divided by the number of years. It is to note that the actual debentures redeemable are identified by means of drawing the requisite number of lots out of the debentures outstanding for payment.

Purchase in open market: When a company purchases its own debentures for the purposes of cancellation, such an act of purchasing and cancelling the debentures constitutes redemption of debentures by purchase in the open market.

Conversion into shares or new debentures: A company can redeem its debentures by converting them into shares or new class of debentures. If debentureholders find that the offer is beneficial to them, they can exercise their right of converting their debentures into shares or new class of debentures.

These new shares or debentures can be issued at par, at a discount or at a premium. It should be noted that only the actual proceeds of debentures are to be taken into account for ascertaining the number of shares to be issued in lieu of the debentures to be converted. If debentures were originally issued at discount, the actual amount realised from them at the time of issue would be used as the basis for computing the actual number of shares to be issued. It may be noted that this method is applicable only to convertible debentures.

The following factors should be taken into consideration by the company at the time of redemption of debentures :

- **1. Time of redemption of debentures :-** Generally, debentures are redeemed on due date but a company may redeem its debentures before maturity date, if its articles provides for such.
- **2. Sources of Redemption of debentures :-** A company may source its redemption of debentures either out of capital or out of profits.

As per the Act, all India financial institutions registered by Reserve Bank of India, banking companies, NFBCs registered with Reserve bank of India, Housing Finance companies registered to the National Housing bank and the companies listed on stock exchange and unlisted companies are exempted from creating Debenture Redemption Reserve and may redeem debentures out of capital. Whereas for "other unlisted companies", the adequacy of Debenture Redemption Reserve shall be ten percent of the value of the outstanding debentures.

However companies are required to invest or deposit a sum on or before April 30 which shall not be less than 15% of the amount of debentures maturing during the year ending on March 31 of the next year in anyone or more methods of investments or deposits given below:

- (i) Deposit with any scheduled bank, free from any charge or line;
- (ii) Securities of the Central Government or of any State Government;
- (iii) Securities mentioned in sub clauses (a) to (d) and (ee) of section 20 of the Indian Trusts Act, 1982;
- (iv) Bonds issued by any other company which is notified under subclause (f) of section 20 of the Indian Trusts Act, 1982;
- (v) The amount invested or deposited as above shall not be used for any purpose other than for redemption of debentures maturing during the year referred above;

In case the debentures are redeemed in lump sum a company will invest 15% of the of the value of debentures. However, if the debentures are to be redeemed in installment, over a period, investment shall not be realised but carried forward to meet the requirement of debenture Redemption Investment

for the next redemption. It must be at least 15% of the value of the debentures to be redeemed in the next year. However, if debenture redemption investment is more or less than 15% of the value of debentures to be redeemed, Debenture Redemption Investment shall be realised to the extent they are excess and further amount shall be invested to meet the shortfall in the investment. For example, Kays Ltd. has 10,000, 60% debentures to be redeemed as follows:

| On January 31, 2017 | 2,000 Debentures |
|---------------------|------------------|
| January 31, 2018 | 3,000 |
| January 31, 2019 | 3,000 |
| January 31, 2020 | 2,000 |

The amount will be invested or realised during the above 4 years as:

- (i) Kays Ltd., will invest Rs. 30,000 on or before April 30, 2016 for redemption of 2,000 debentures on January 31, 2017.
- (ii) It will further invest Rs. 15,000 on or before April 30, 2017 to make the investment equal to Rs. 15,000 on or before April 30, 2017 to make the investment equal to Rs. 45,000, i.e., 15% of Rs. 3,00,000 the debentures to be redeemed on January 31, 2018.
- (iii) Investment in debenture redemption as on April 20, 2018 will be Rs. 45,000 which meets the criteria of investment being 15% of debentures (Rs. 3,00,000) to be redeemed during the year. At the time of redemption of debentures on January 31, 2019 it will realise debentures redemption investments of Rs, 15,000. After realisation of investments, balance investments will be Rs. 30,000 which is equal to 15% Rs. 200,000.
- (iv) At the time of redemption of 2,000 debentures on January 31, 2020 all the investments will be realised.

2.12 Redemption by Payment in Lump Sum

When the company pays the whole amount in lump sum, the following journal entries are recorded in the books of the company:

| 1. | If del | pentures are to be redeemed at par | |
|----|--------|---|-----|
| | (a) | Debentures A/c | Dr. |
| | | To Debentureholders | |
| | (b) | Debentureholders | Dr. |
| | | To Bank A/c | |
| 2. | If del | pentures are to be redeemed at premium | |
| | (a) | Debentures A/c | Dr. |
| | | Premium on Redemption of Debentures A/c | Dr. |
| | | To Debentureholders | |

(b) Debentureholders To Bank A/c Dr.

Illustration 21

Give the necessary journal entries at the time of redemption of debentures in each of the following cases.

- 1. X Ltd. issued 5,000, 9% debentures of Rs. 100 each at par and redeemable at par at the end of 5 years out of capital.
- 2. X Ltd. issued 1,000, 12% debentures of Rs. 100 each at par. These debentures are redeemable at 10% premium at the end of 4 years.
- 3. X Ltd. issued 12% debentures of the total face value of Rs. 1,00,000 at premium of 5% to be redeemed at par at the end of 4 years.
- 4. X Ltd. issued Rs. 1,00,000, 12% debentures at a discount of 5% but redeemable at a premium of 5% at the end of 5 years.

Solution:

Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|------------|------|--------------------------|---------------------------|
| 1. | 9% Debentures A/c To Debentureholders A/c (Amount due on redemption debentures) | Dr. | | 5,00,000 | 5,00,000 |
| | Debentureholders A/c To Bank A/c (Payment made to debentureholders) | Dr. | | 5,00,000 | 5,00,000 |
| 2. | 12% Debentures A/c Premium on Redemption of Debentures A/c To Debentureholders (Amount due on redemption of debentures) | Dr. Dr. | | 1,00,000 10,000 | 1,10,000 |
| | Debentureholders A/c To Bank A/c (Payment made to debentureholders) | Dr. | | 1,10,000 | 1,10,000 |

| 3. | 12% Debentures A/c To Debentureholders A/c (Amount due on redemption) | Dr. | 1,00,000 | 1,00,000 |
|----|---|------------|-------------------|----------|
| | Debentureholders A/c To Bank A/c (Payment made to debentureholders) | Dr. | 1,00,000 | 1,00,000 |
| 4. | 12% Debentures A/c Premium on Redemption of Debentures A/c To Debentureholders A/c (Amount due on redemption of debentures) | Dr. Dr. | 1,00,000 5,000 | 1,05,000 |
| | Debentureholders A/c To Bank A/c (Payment made to debentureholders) | Dr. | 1,05,000 | 1,05,000 |

XYZ Ltd. issued 200, 15% debentures of Rs. 100 each on April 01, 2013 at discount of 10% redeemable at premium of 10% out of profits. Give journal entries at the time of issue and redemption of debentures if debentures are to be redeemed in lump sum at the end of 4th year. The company has invested the requisite amount as stipulated in the Act for the redemption of debentures. Pass the necessary journal entries if (a) XYZ Ltd. is a listed company (b) XYZ is "other unlisted" company.

Solution:

(a) XYZ Ltd. is a listed company.

Books of XYZ Ltd. JOURNAL

| Date | Particulars | L.F. | Dr. (Rs.) | Cr (Rs.) |
|----------|---|------|--------------|-------------|
| 2016 | Bank A/c Dr. | | 18,000 | |
| April, 1 | To Debenture Application and Allotment A/c (Application money received on debentures) | | | 18,000 |
| | (Application money received on descritures) | | | |

| April, 1 | Debenture Application and Allotment A/c Loss on issue of Debenture A/c To 15% Debentures A/c To Premium on Redemption of Debentures A/c (Issue of Debentures at 10% discount and redeemable at 10% premium) | Dr. Dr. | 18,000 4,000 | 20,000 |
|-------------------|---|------------|-----------------|--------|
| April, 30 | Debenture Redemption Investment A/c To Bank A/c (Required amount invested in DRI) | Dr. | 3,000 | 3,000 |
| 2020 March, 31 | Bank A/c To Debenture Redemption Investment A/c (DRI en cashed at the time of redemption of debentures) | Dr. | 3,000 | 3,000 |
| March, 31 | 15% Debentures A/c Premium on Redemption of Debentures A/c To Debentureholders A/c (Amount due on redemption) | Dr. Dr. | 20,000 2,000 | 22,000 |
| March, 31 | Debentureholders A/c To Bank A/c (Amount paid to Debentureholders) | Dr. | 22,000 | 22,000 |

(b) XYZ is "other unlisted" company.

Books of XYZ Ltd. JOURNAL

| Date | Particulars | | L.F. | Dr. | Cr |
|----------|--|----------------|------|--------|--------|
| | X | | | (Rs.) | (Rs.) |
| 2016 | | | | | |
| April, 1 | Bank A/c | Dr | | 18,000 | |
| | To Debenture Application and | | | | |
| | Allotment A/c | | | | 18,000 |
| | (Application money received on debentures) |) | | | |
| April 1 | Debenture Application and Alletment A/a | D _m | | 10,000 | |
| April, 1 | Debenture Application and Allotment A/c | Dr. | | 18,000 | |
| | Loss on issue of Debenture A/c | Dr. | | 4,000 | 00.000 |
| | To 15% Debentures A/c | | | | 20,000 |
| | To Premium on Redemption of | | | | 2,000 |
| | Debentures A/c | | | | |
| | (Issue of Debentures at 10% discount and | | | | |
| | redeemable at 10% premium) | | | | |

| 2019 March, 31 | Surplus, i.e., Balance in Statement of Dr. Profit and Loss To Debenture Redemption Reserve (DRR created @ 10% of outstanding debentures) | 2,000 | 2,000 |
|-------------------|--|--------|--------|
| | Debenture Redemption Investment A/c Dr. To Bank A/c (Required amount invested in DRI) | 3,000 | 3,000 |
| 2020 March, 31 | Bank A/c Dr. To Debenture Redemption Investment A/c (DRI en cashed at the time of redemption of debentures) | 3,000 | 3,000 |
| March, 31 | 15% Debentures A/c Dr. Premium on Redemption of Debentures A/c Dr. To Debentureholders A/c (Amount due on redemption) | 20,000 | 22,000 |
| March, 31 | Debentureholders A/c Dr. To Bank A/c (Amount paid to Debentureholders) | 22,000 | 22,000 |
| March, 31 | Debenture Redemption Reserve A/c Dr. To General Reserve (DRR transferred to General Reserve) | 2,000 | 2,000 |

2.12.2 Redemption by Payment in Instalments

When, as per terms of the issue, the debentures are to be redeemed in instalments beginning from a particular year, the actual debentures to be redeemed are selected usually by draw of lots. At the time of redemption, the following journal enries will be recorded.

(a) Debentures A/c Dr.
 To Debentureholders A/c

 (b) Debentureholders A/c Dr.
 To Bank A/c

JK Ltd., a listed company, issued 6,000, 12% Debentures of 50 each at a premium of 5% on April 1, 2014. Interest on these debentures is payable annually on 31st March each year. The debentures are redeemable at par in four equal installments at the end of third, fourth, fifth and sixth year at a premium of 10%. The company invested in specified securities as investment for the redemption of debentures.

You are required to pass journal entries at the time of issue and redemption of debentures in the books of the company.

Solution:

Books of JK Ltd. JOURNAL

| Date | Particulars | L.F. | Dr. (Rs.) | Cr (Rs.) |
|-------------------|--|------|--------------|--------------------|
| 2014 April, 1 | Bank A/c Dr. To Debenture Application and Allotment A/c (Application money received on debentures) | | 3,15,000 | 3,15,000 |
| April, 1 | Debenture Application and Allotment A/c Dr. To 12% Debentures A/c To Securities Premium Reserve (Debenture Application money transferred to debentures and securities premium reserve) | 0 | 3,15,000 | 3,00,000 15,000 |
| 2015 March, 31 | Debenture Interest A/c Dr. To Debentureholders A/c (Interest due on debentures) | | 36,000 | 36,000 |
| March, 31 | Debentureholders A/c Dr. To Bank A/c (Payment of Interest) | | 36,000 | 36,000 |
| 2016 March, 31 | Debenture interest A/c Dr. Debentureholders A/c (Interest due on debentures) | | 36,000 | 36,000 |
| March, 31 | Debentureholders A/c Dr. To Bank A/c (Interest due on debentures) | | 36,000 | 36,000 |

| April, 30 | Debenture Redemption Investment A/c To Bank A/c (Amount invested in specific securiti | Dr. | 11,250 | 11,250 |
|-------------------|---|-----------------|----------|----------|
| 2017 March, 31 | Debenture interest A/c Debentureholders A/c (Interest due on debentures) | Dr. | 36,000 | 36,000 |
| March, 31 | Debentures A/c. To Debentureholders A/c (6000 = 1,500 debentures due on red | Dr. emption) | 75,000 | 75,000 |
| March, 31 | Debenturesholders A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 1,11,000 | 1,11,000 |
| 2018 March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 4,500 debentures) | Dr. | 27,000 | 27,000 |
| March, 31 | 12% Debentures A/c To Debentureholders A/c (6000 = 1,500 debentures due on redemption) | Dr. | 75,000 | 75,000 |
| March, 31 | Debentures Interest A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 1,02,000 | 1,02,000 |
| 2019 March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 3000 debentures) | Dr. | 18,000 | 18,000 |
| March, 31 | 12% Debentures Interest A/c To Debentureholders A/c (6000 = 1,500 debentures due on redemption) | Dr. | 75,000 | 75,000 |
| March, 31 | Debentureholders A/c To Bank A/c (Amount paid to be debentureholders including interest) | Dr. | 93,000 | 93,000 |

| 2020 March, 31 | Bank A/c To Debenture Redemption Investme (DRI realised) | Dr. ent A/c | 11,250 | 11,250 |
|-------------------|---|----------------|--------|--------|
| March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 1,500 debentures) | Dr. | 9,000 | 9,000 |
| March, 31 | 12% Debentures Interest A/c To Debentureholders A/c (6000 = 1,500 debentures due on redemption) | Dr. | 75,000 | 75,000 |
| March, 31 | Debentureholders A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 84,000 | 84,000 |

XYZ Ltd. a listed company issued 6,000, 12% Debentures of Rs. 50 each at a premium of 5% on April 1, 2014. Interest on these debenture is payable annually on 31st March each year. The debentures are redeemable in four equal installments at the end of third, fourth, fifth and sixth year at a premium of 10%. The company invested in specified securities as investment for the redemption of debentures.

You are required to pass journal entries at the time of issue and redemption of debentures in the books of the company.

Solution:

Books of XYZ Ltd. JOURNAL

| Date | Particulars | L.F. | Dr. (Rs.) | Cr (Rs.) |
|------------------|--|------|--------------------|------------------------------|
| 2014 April, 1 | Bank A/c To Debenture Application and Allotment A/c (Application money received on debentures) | r. | 3,15,000 | 3,15,000 |
| April, 1 | Debenture Application and Allotment A/c D Loss on issue of Debenture A/c D To 12% Debentures A/c To Securities Premium Reserve A/c To Premium on Redemption of Debentures A/c (Debenture Application money transferred to debentures and securities premium reserve) | | 3,15,000 30,000 | 3,00,000 15,000 30,000 |

| April, 1 | Statement of Profit and Loss To Loss on issue of Debentures A/c (Loss on issue of debentures written off) | Dr. | 30,000 | 30,000 |
|-------------------|---|-----|----------|----------|
| 2015 March, 31 | Debenture Interest A/c To Debentures A/c (Interest due on debentures) | Dr. | 36,000 | 36,000 |
| March, 31 | Debenture Interest A/c To Bank A/c (Payment of Interest) | Dr. | 36,000 | 36,000 |
| 2016 March, 31 | Debenture Interest A/c To Debentureholders A/c (Interest due on debentures) | Dr. | 36,000 | 36,000 |
| March, 31 | Debenture holders A/c To Bank A/c (Interest paid) | Dr. | 36,000 | 36,000 |
| 2017 April, 30 | Debenture Redemption Investment A/c To Bank A/c (Amount invested in specified securities) | Dr. | 11,250 | 11,250 |
| March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on debentures) | Dr. | 36,000 | 36,000 |
| March, 31 | Debentures A/c | Dr. | 75,000 | |
| | Premium on Redemption of Debentures A/c To Debentureholders A/c (6000 = 1,500 debentures due on redemption) | Dr. | 7,500 | 82,500 |
| March, 31 | Debentures holders A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 1,18,000 | 1,18,000 |
| 2018 March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 4,500 debentures) | Dr. | 27,000 | 27,000 |

| March, 31 | 12% Debentures A/c | Dr. | 75,000 | |
|-------------------|---|-----|----------|------------------|
| | Premium on Redemption of Debentures A/c To Debentureholders A/c (6000 = 1,500 debentures due on redemption) | Dr. | 7,500 | 82,500 |
| March, 31 | Debentures Interest A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 1,09,500 | 1,09,500 |
| 2019 March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 3000 debentures) | Dr. | 18,000 | 18,000 |
| March, 31 | 12% Debentures Interest A/c | Dr. | 75,000 | |
| | Premium on Redemption of Debentures A/c To Debentureholders A/c (6000 = 1,500 debentures due on redemption) | Dr. | 7,500 | 75,000 82,500 |
| March, 31 | Debentures Interest A/c To Bank A/c (Amount paid to be debentureholders including interest) | Dr. | 1,00,500 | 1,00,500 |
| 2020 March, 31 | Bank A/c To Debenture Redemption Investment A/c (DRI realised) | Dr. | 11,250 | 11,250 |
| March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 1,500 debentures) | Dr. | 9,000 | 9,000 |
| March, 31 | 12% Debentures Interest A/c | Dr. | 75,000 | |
| | Premium on Redemption of Debentures A/c To Debentureholders A/c (6000 x = 1,500 debentures due on redemption) | Dr. | 7,500 | 82,500 |
| March, 31 | Debentures holders A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 91,500 | 91,500 |

ABC Ltd., other unlisted company, issued 6,000, 12% Debentures of Rs. 50 each at a discount of 5% on April 1, 2014. Interest on these debenture is payable annually on 31st March each year. The debentures are redeemable at a premium of 10% in four equal instalments at the end of third, fourth, fifth and sixth year. The company invested in specified securities as investment for the redemption of debentures.

You are required to pass journal entries at the time of issue and redemption of debentures in the books of the company.

Solution:

Books of ABC Ltd. JOURNAL

| Date | Particulars | L.F. | Dr. (Rs.) | Cr (Rs.) |
|-------------------|--|------|--------------------|--------------------|
| 2014 April, 1 | Bank A/c Dr. To Debenture Application and Allotment A/c (Application money received on debentures) | | 2,85,000 | 2,85,000 |
| April, 1 | Debenture Application and Allotment A/c Dr. Loss on issue of Debenture A/c Dr. To 12% Debentures A/c To Premium Redemption of Debenture A/c (Debenture application money transferred on allotment of debentures issued at par but redeemable at premium) | | 2,85,000 45,000 | 3,00,000 30,000 |
| March, 31 | Statement of Profit and Loss Dr. To Loss on issue of Debentures A/c (Loss on issue of Debentures written off) | | 45,000 | 45,000 |
| 2015 March, 31 | Debenture Interest A/c Dr. To Debentureholders A/c (Interest due on debentures) | | 36,000 | 36,000 |
| | Debenture Interest A/c Dr. To Bank A/c (Payment of Interest) | | 36,000 | 36,000 |
| 2016 March, 31 | Debenture Interest A/c Dr. To Debentureholders A/c (Interest due on debentures) | | 36,000 | 36,000 |

| March, 31 | Debenture holders A/c To Bank A/c (Interest due on debentures) | Dr. | 36,000 | 36,000 |
|-------------------|--|-----|----------|----------|
| March, 31 | Surplus, i.e., Statement of Profit and Loss To Debenture Redemption Reserve (DRR equal to 10% of outstanding debents | | 30,000 | 30,000 |
| April, 30 | Debenture Redemption Investment A/c To Bank A/c (Investment in DRI @15% of debentures to be redeemed) | Dr. | 11,250 | 11,250 |
| 2017 March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on debentures) | Dr. | 36,000 | 36,000 |
| March, 31 | Debentures A/c | Dr. | 75,000 | |
| | Premium on Redemption of Debentures A/c To Debentureholders A/c $(6000 \times 1/4 = 1,500 \text{ debentures})$ due on redemption) | Dr. | 7,500 | 82,500 |
| March, 31 | Debentures holders A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 1,18,500 | 1,18,500 |
| March, 31 | Debenture Redemption Reserved To General Reserve (One fourth of DRR transferred to general reserve) | Dr. | 7,500 | 7,500 |
| 2018 March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 4,500 debentures) | Dr. | 27,000 | 27,000 |
| March, 31 | 12% Debentures A/c | Dr. | 75,000 | |
| | Premium on Redemption of Debentures A/c To Debentureholders A/c (6000 1/4 = 1,500 debentures due on redemption) | Dr. | 7,500 | 82,500 |
| March, 31 | Debentures Interest A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 1,09,000 | 1,09,500 |

| March, 31 | Debenture Redemption Reserved To General Reserve (One fourth of DRR transferred to gene | Dr. | 7,500 | 7,500 |
|-------------------|---|---------------------|----------|----------|
| 2019 March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 3000 debentures) | Dr. | 18,000 | 18,000 |
| March, 31 | 12% Debentures Interest A/c Premium on Redemption | Dr. | 75,000 | |
| | of Debentures A/c To Debentureholders A/c (6000 = 1,500 debentures due on rec | Dr. demption) | 7,500 | 82,500 |
| March, 31 | Debenture Redemption Reserved To General Reserve (One fourth of DRR transferred to general reserve) | Dr. | 7,500 | 7,500 |
| March, 31 | Debenturesholders A/c To Bank A/c. (Amount paid to be debentureholders including interest) | Dr. | 1,00,500 | 1,00,500 |
| 2020 March, 31 | Debentures Interest A/c To Debentureholders A/c (Interest due on 1,500 debentures) | Dr. | 9,000 | 9,000 |
| March, 31 | 12% Debentures Interest A/c Premium on Redemption | Dr. | 75,000 | |
| | of Debentures A/c To Debentureholders A/c (6000 = 1,500 debentures due on redemption) | Dr. | 7,500 | 82,500 |
| March, 31 | Debentureholders A/c To Bank A/c (Amount paid to debentureholders including interest) | Dr. | 91,500 | 51,500 |
| March, 31 | Bank A/c To Debenture Redemption Investment A/c (Debenture Redemption Investment rea | Dr. llised) | 11,250 | 11,250 |
| March, 31 | Debenture Redemption Reserved To General Reserve (One fourth of DRR transferred to gene | Dr. ral reserve) | 7,500 | 7,500 |

ABC Ltd., issued 3,000, 14% Debentures of Rs. 100 each at a discount of 5% on April 1, 2012. Interest on these debentures is payable annually on March 31 each year. The debentures are redeemable at par in three equal instalments at the end of the third, fourth and fifth year. Prepare 14% Debentures Account, Discount on Issue of Debentures Account, and Debenture Interest Account in the books of the company.

Solution:

14% Debentures Account

| Dr. | | | | | | | Cr. |
|--------------------------|-------------------------------------|------|---|----------------|---------------------------------------|------|-----------------------------|
| Date | Particulars | J.F. | Amount | Date | Particulars | J.F. | Amount |
| | | | (Rs.) | | | | (Rs.) |
| 2013 Mar.31 | Balance c/d | | 3,00,000 | 2012 Apr.01 | Debenture Application | | 2,85,000 |
| | | | . Ó | | Discount on Issue of Debentures | | 15,000 |
| | | | 3,00,000 | | Depentures | | 3,00,000 |
| 2014 Mar.31 | Balance c/d | | 3,00,000 | 2013 Apr.01 | Balance b/d | | 3,00,000 |
| | | | 3,00,000 | | · | | 3,00,000 |
| 2015 | | | 1.00.000 | 2014 | D 1 1/1 | | 2 22 222 |
| Mar.31 Mar.31 | Debentureholders A/c Balance c/d | X | 1,00,000 2,00,000 3,00,000 | Apr.01 | Balance b/d | | 3,00,000 3,00,000 |
| 2010 | , XC | 7 | | | | | |
| 2016 Mar.31 Mar.31 | Debentureholders A/c Balance c/d | | 1,00,000 1,00,000 | 2015 Apr.01 | Balance b/d | | 2,00,000 |
| | | | 2,00,000 | • | | | 2,00,000 |
| 2017 Mar.31 | Debentureholders A/c | | 1,00,000 | 2016 Apr.01 | Balance b/d | | 1,00,000 |
| | Debentureholders A/c | | 1,00,000 1,00,000 | | Balance b/d | | 1,0 |

Debentures Interest Account

| Dr. | Cr. |
|-----|-----|
| | |

| Date | Particulars | J.F. | Amount | Date | Particulars | J.F. | Amount |
|----------------|------------------|------|--------|----------------|----------------------------------|------|--------|
| | | | (Rs.) | | | | (Rs.) |
| 2013 Mar.31 | Debentureholders | | 42,000 | 2013 Mar.31 | Statement of Profit and Loss | | 42,000 |
| 2014 Mar.31 | Debentureholders | | 42,000 | 2014 Mar.31 | St atement of Profit and Loss | | 42,000 |
| 2015 Mar.31 | Debentureholders | | 42,000 | 2015 Mar.31 | Statement of Profit and Loss | | 42,000 |
| 2016 Mar.31 | Debentureholders | | 28,000 | 2016 Mar.31 | Statement of Profit and Loss | | 28,000 |
| 2017 Mar.31 | Debentureholders | | 14,000 | 2017 Mar.31 | Statement of Profit and Loss | | 14,000 |

Discount on Issue Debentures Account

Dr. Cr.

| Date | Particulars | J.F. | Amount | Date | Particulars | J.F. | Amount |
|-----------------|-----------------------|------|--------|----------------------------|---------------------------------|------|--------|
| | | | (Rs.) | | | | (Rs.) |
| 2012 Apr. 01 | To 14% debentures A/c | 0 | 15,000 | 2013 Mar. 31 Mar. 31 | Statement of Profit and Loss | | 15,000 |
| | | | 15,000 | | | | 15,000 |
| | | | | 1 | | | |

IIllustration 27

Vishwas Ltd. has outstanding 20,000 7% debentures of Rs. 100 each redeemable as follows:

| March 31, 2017 | 3,000 |
|----------------|-------|
| March 31, 2018 | 6,000 |

March 31, 2019 5,000

March 31, 2020 Balance Debentures

It decided to create Debentures Redemption Reserve on March 31, 2016. It made investments in Debenture Redemption Investments to meet the requirement of law. Investment wherever required were made on April 01, of the financial year. Pass the necessary journal entries and prepare the ledger accounts.

The company made investments in Debenture Redemption Investments to meet the requirement of law. Investment wherever required were made on April 01, of the financial year. Pass necessary journal entries and prepare the ledger accounts.

Solution:

Books of Vishwas Ltd. JOURNAL

| Date | Particulars | | L.F. | Dr. (Rs.) | Cr (Rs.) |
|-------------------|---|----------------|------|--------------|-------------|
| 2016 April, 1 | Debenture Redemption Investment A/c To Bank A/c (Investment equal to 15% of Rs. 30,00,000 | Dr. | | 45,000 | 45,000 |
| 2017 March, 31 | 7% Debenture A/c To Debentureholders A/c (Amount of 3,000 debentures due for reder | Dr. nption) | | 3,00,000 | 3,00,000 |
| March, 31 | Debentureholders A/c To Bank A/c (Amount due to debentureholders paid) | Dr. | | 3,00,000 | 3,00,000 |
| April, 1 | Debenture Redemption Investment A/c To Bank A/c (Investment equal to 15% of Rs. 30,00,000 | Dr.)) | | 45,000 | 45,000 |
| 2018 March, 31 | Bank A/c To Debenture Redemption Investment (Part investment realised towards investment equal to 15% of Rs. 5,00,000, i.e., debentuto be redeemed on March 31, 2019. | ent | | 15,000 | 15,000 |

| March, 31 | 7% Debentures A/c To Debentureholders A/c (Amount of 6,000, 7% debentures of Rs. 100 each due for redemption) | Dr. | 6,00,000 | 6,00,000 |
|-------------------|---|------------|----------|----------|
| March, 31 | Debentureholders A/c To Bank A/c (Amount paid to debentureholders) | Dr. | 6,00,000 | 6,00,000 |
| 2019 March, 31 | 7% Debentures A/c To Debentureholders A/c (Amount of 6,000, 7% debentures of Rs. 100 each due for redemption) | Dr. | 5,00,000 | 5,00,000 |
| March, 31 | Debentureholders A/c To Bank A/c (Amount paid to debentureholders) | Dr. | 5,00,000 | 5,00,000 |
| April, 1 | Debenture Redemption Investment A/c To Bank (Investment equal to 15% of Rs. 30,00,000 | Dr. | 15,000 | 15,000 |
| 2020 March, 31 | Bank A/c To Debenture Redemption Investment (DRI realised) | Dr. A/c | 90,000 | 90,000 |
| March, 31 | 7% Debentures A/c To Debentureholders A/c (Amount of 6,000, 7% debentures of Rs. 100 each due for redemption) | Dr. | 6,00,000 | |
| March, 31 | Debentureholders A/c To Bank A/c (Amount paid to debentureholders) | Dr. | 6,00,000 | 6,00,000 |

7% Debentures Account

| Date | Particulars | J.F. | Amount | Date | Particulars | J.F. | Amount |
|---------|---------------------|------|-----------|-----------|----------------|------|-----------|
| | | | (Rs.) | | | | (Rs.) |
| 2017 | | | | | | | |
| Mar, 31 | To Debentureholders | | 3,00,000 | 2016 | By Balance b/d | | 20,00,000 |
| | To Balance b/d | | 17,00,000 | April, 01 | | | |
| | | | 20,00,000 | | | | 20,00,000 |
| 2018 | | | | 2017 | | | |
| Mar, 31 | To Debentureholders | | 6,00,000 | April, 01 | By Balance b/d | | 17,00,000 |
| | To Balance b/d | | 11,00,000 | | | | |
| | | | 17,00,000 | | | | 17,00,000 |
| 2019 | | | | 2018 | | | |
| Mar, 31 | To Debentureholders | | 5,00,000 | April, 01 | By Balance b/d | | 11,00,000 |
| | To Balance b/d | | 6,00,000 | - | | | |
| | | | 11,00,000 | | | | 11,00,000 |
| 2020 | | | | 2019 | | | |
| Mar, 31 | To Debentureholders | | 6,00,000 | April, 01 | By Balance b/d | | 6,00,000 |
| | To Balance b/d | | 6,00,000 | | | | 6,00,000 |

Debenture Redemption Investment Account

| Date | Particulars | J.F. | Amount | Date | Particulars | J.F. | Amount |
|-----------|----------------|------|-----------|---------|----------------|------|-----------|
| | | | (Rs.) | | | | (Rs.) |
| 2016 | | | | 2017 | | | |
| April. 31 | To Balance | | 45,00,000 | Mar, 31 | By Balance b/d | | 45,00,000 |
| | | | 45,00,000 | | | | 45,00,000 |
| 2017 | (| | | 2018 | | | |
| April, 01 | To Balance b/d | | 45,00,000 | Mar, 31 | By Bank | | 45,00,000 |
| | To Bank A/c | | 45,00,000 | | By Balance c/d | | 45,00,000 |
| | | | 90,00,000 | | | | 90,00,000 |
| 2018 | | | | 2019 | | | |
| April, 01 | To Balance b/d | , (| 75,00,000 | Mar, 31 | By Balance c/d | | 75,00,000 |
| | To Bank A/c | | 15,00,000 | | By Bank | | 15,00,000 |
| | | | 90,00,000 | | | | 90,00,000 |

2.13 Redemption by Purchase in Open Market

When a company purchases its own debentures in the open market for the purpose of immediate cancellation, the purchase and cancellation of such debentures are termed as redemption by purchase in the open market. The advantage of such an option is that a company can redeem the debentures at its convenience whenever it has surplus funds. Secondly, the company can purchase them when they are available in market at a discount.

When the debentures are purchased from the market at a discount and cancelled, the journal entries are recorded as follows:

1. On purchase of own debentures for immediate cancellation

Debentures A/c Dr.

To Bank A/c

To Profit on Redemption of Debentures A/c

2. On transfer of Profit on Redemption

Profit on Redemption of Debenture A/c Dr.

To Capital Reserve

In case, the debentures are purchased from the market at a price which is above the nominal value of debenture, the excess will be debited to loss on redemption of debentures. The journal entry in that case will be

1. Debentures A/c Dr.

Loss on Redemption of Debentures A/c Dr.

To Bank A/c

2. Statement of profit and loss Dr.

To Loss on Redemption of Debentures A/c

Illustration 28

X Ltd. purchased its own debentures of Rs. 100 each of the face value of Rs. 20,000 from the open market for cancellation at Rs. 92. Record necessary journal entries.

Solution:

Books of X Limited Journal

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|------|--------------------------|---------------------------|
| (1) | Debentures A/c Dr. | | 20,000 | |
| | To Bank A/c | | | 18,400 |
| | To Profit on Redemption of Debentures A/c | | | 1,600 |
| | (Own debentures purchased at Rs. 92 | | | |
| | from the market) | 1 | | |

| (2) | Profit on Redemption of Debenture A/c | Dr. | I | 1,600 | |
|-----|--|-----|---|-------|-------|
| | To Capital Reserve | | | | 1,600 |
| | (Transfer of profit on cancellation of | | | | |
| | debentures to capital reserve) | | | | |

^{*} Alternatively, the following two journal entries may be passed:

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|------|--------------------------|---------------------------|
| | Own Debentures A/c To Bank A/c (Purchased its own debentures of Rs. 20,000 @ Rs. 92 each) | | 18,000 | 18,000 |
| | Debentures A/c To Own Debentures A/c To Profit on Redemption of Debentures A/c (Own debentures purchased being cancelled) | | 20,000 | 18,000 2,000 |

X Ltd. decided to redeem 250, 12% debentures of Rs. 100 each amounting to Rs. 25,000. For this purpose, the company purchased debentures amounting to Rs. 20000 in the open market at Rs. 98.50 each. Expenses of Rs. 100 was incurred on it. The balance of debentures amounting to Rs. 5,000 were reedemed by draw of lots. Journalise.

Solution:

Books of X Ltd. Journal

| Date | Particulars | | L.F. | Debit | Credit |
|------|---|-----|------|--------|--------|
| | X | | | Amount | Amount |
| | | | | (Rs.) | (Rs.) |
| | Balance in Statement of profit and loss A/c To Debenture Redemption Reserve A/c (Transfer of profits to Debenture Reserve A/c | Dr. | | 6,250 | 6,250 |
| | Debenture Redemption Investment A/c To Bank A/c (Required amount invested in DRI) | Dr. | | 3,750 | 3,750 |
| | Bank A/c To Debenture Redemption Investment A/c (DRI encashed at the time of redemption of debentures) | Dr. | | 3,750 | 3,750 |

| 12% Debentures A/c To Bank A/c To Profit on Redemption of Debentures A/c (Purchase of 200 debentures @ Rs. 98.50 plus expenses amounting to Rs. 100.) | | 20,000 | 19,800 200 |
|---|-----|--------|---------------|
| Profit on Redemption of Debentures A/c To Capital Reserve (Profit on Redemption transferred to Capital Reserve.) | Dr. | 200 | 200 |
| 12% Debentures A/c To Bank A/c (Redemption of Rs. 50 debentures) | Dr. | 5,000 | 5,000 |
| Debenture Redemption Reserve A/c To General Reserve (Balance is DRR transferred to General Reserve on Redemption of Debentures) | Dr. | 6,250 | 6,250 |

On April 01, 2013, a company made an issue of 1,000, 6% debentures of Rs. 1,000 each at Rs. 960 per debenture. The terms of issue provided for the redemption of 200 debentures every year starting from 31 March 2015 either by purchase or by draw of lot at par at the company's option. On 31.03.2015, the company purchased for cancellation debentures of the face value of Rs. 80,000 at Rs. 950 per debenture and of the face value of Rs. 1,20,000 at Rs. 900 per debenture.

Journalise the above transaction, and show how the profit on redemption would be treated.

Solution:

| Date | Particulars Particulars | L.F. | Debit | Credit |
|---------|---|------|----------|-----------|
| | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| 2013 | Bank A/c Dr. | | 9,60,000 | |
| Apr. 01 | To 6% Debentures Application & Allotment A/o | : | | 9,60,000 |
| | (Debentures application money received) | | | |
| Apr. 01 | 6% Debentures Application & Allotment A/c Dr. | | 9,60,000 | |
| | Discount on Issue of Debentures A/c Dr. | | 40,000 | |
| | To 6% Debentures A/c | | | 10,00,000 |
| | (Debentures application money transferred | | | |
| | to Debentures A/c) | | | |

| 2014 Mar. 31 | Statement of profit and loss To Discount on Issue of Debenture A/c (Discount on issue of debentures written-off) | Dr. | 40,000 | 40,000 |
|-----------------|--|--------------|----------|--------------------|
| Mar. 31 | 6% Debentures A/c To Bank A/c To Profit on Redemption of Debenture A/c (Redemption of 80 debentures by purchasing 950 per debenture) | Dr. @ Rs. | 80,000 | 76,000 4,000 |
| Mar. 31 | 6% Debentures A/c To Bank A/c To Profit on Redemption of Debentures A/c (Redemption of 80 debentures @ Rs. 900 by purchasing in open market) | Dr. | 1,20,000 | 1,08,000 12,000 |
| Mar. 31 | Profit on Redemption of Debentures A/c To Capital Reserve A/c (Transfer of profits on cancellation of debentu of Capital Reserve A/c) | Dr. ıres | 16,000 | 16,000 |

2.14 Redemption by Conversion

As stated earlier the debentures can also be redeemed by converting them into shares or new debentures. If debentureholders find that the offer is beneficial to them, they will take advantage of this offer. The new shares or debentures may be issued at par, at a discount or at a premium.

Illustration 31

Arjun Plastics Limited redeemed 1,000, 15% debentures of Rs. 100 each by converting them into equity shares of Rs. 10 each at a premium of Rs. 2.50 per share. The company also redeemed 500 debentures by utilising Rs. 50,000 out of profit. Give the necessary journal entries.

Solution:

Books of Arjun Plastic Limited Journal

| Date | Particulars | | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|------|---|-----|------|--------------------------|---------------------------|
| | 15% Debentures A/c To Debentureholders A/c (Amount due to debentureholders) | Dr. | | 1,00,000 | 1,00,000 |

| Debentureholders A/c To Equity Shares Capital A/c To Securities Premium Reserve A/c (Issue of 800 equity shares at a premium of Rs. 2.50 per share) | Dr. | 1,00,000 | 80,000 20,000 |
|---|-----|----------|------------------|
| Debenture A/c To Debentureholders A/c (Amount due to debentureholders) | Dr. | 50,000 | 50,000 |
| Debentureholders A/c To Bank A/c (Payment to debentureholders) | Dr. | 50,000 | 50,000 |

On April 01, 2013, a company made an issue of 10,000, 9% Debentures of Rs. 100 each at Rs. 92 per debenture. The terms of issue provided for the redemption of 2,000 debentures every year starting from the March 31, 2016 either by conversion in to equity shares of Rs. 20 each or by draw of lot at per at the company's option. On March 31, 2016, company redemption, 2,000, 9% debentures by converting them into Equity shares of Rs. 20 each. Give the necessary Journal entries.

Books of a Company Journal

| Date | Particulars | L.F. | Debit Amount (Rs.) | Credit Amount (Rs.) |
|----------------|---|------|--------------------------|----------------------------|
| 2016 Man 21 | 9% Debentures A/c Dr. | | 2,00,000 | , , |
| Mar. 31 | To Debentureholders A/c To Statement of Profit & Loss To Discount on Issue of Debentures A/c | | | 1,84,000 9,600 8,400 |
| | (Amount due to debentureholders on redemption by conversion) | | | 0,400 |
| Mar. 31 | Debentureholders A/c Dr. To Equity Share Capital A/c (New equity shares issued to debentureholders) | | 1,84,000 | 1,84,000 |

Illustration 33

LCM Ltd. purchased for cancellation of its own 10,00,000, 9% Debentures of Rs. 500 each at Rs. 480 each. Record necessary journal entries.

Solution:

Books of LCM Ltd. Journal

| Date | Particulars | L.F. | Debit | Credit |
|------|---|----------|--------------|--------------|
| | | | Amount | Amount |
| | | | (Rs.) | (Rs.) |
| | Own Debentures A/c Dr. | | 48,00,00,000 | |
| | To Bank A/c | | | 48,00,00,000 |
| | (Purchased its own debentures @ Rs. 480 each) | | | |
| | 9% Debenture A/c Dr. |] | 50,00,00,000 | |
| | To Own Debentures A/c | | | 48,00,00,000 |
| | To Profit on Cancellation of | | | 2,00,00,000 |
| | debentures A/c | | | 7, |
| | (Own debenture purchased being cancelled) | | | |
| | Profit on cancellation of debentures A/c Dr. | | 2,00,00,000 | |
| | To Capital Reserve | • | | 2,00,00,000 |
| | (Profits on cancellation of debentures | | | |
| | transferred to Capital Reserve) | | | |

Test your Understanding - II

Select the correct answer for the following multiple choice questions:

| 1. | . Debentures which are transferable by mere delivery are: | | | lelivery are: |
|----|---|------------------------|-----|-------------------|
| | (a) | Registered debentures, | (b) | First debentures, |
| | (c) | Bearer debentures. | | |
| 0 | CD1 | C 11 | 1 1 | 1 6 37 0 14 1 |

2. The following journal entry appears in the books of $\,$ X Co. Ltd. Bank a/c $\,$ Dr. $\,$ 4,75,000

Loss on issue of debenture a/c Dr. 75,000

To 12% Debentures a/c 5.00,000

To Premium on Redemption of Debenture A/c 50,000

Debentures have been issued at a discount of:

(a) 15%, (b) 5%, (c) 10%.

- 3. X Co. Ltd. purchased assets worth Rs. 28,80,000. It issued debentures of Rs. 100 each at a discount of 4 per cent in full satisfaction of the purchase consideration. The number of debentures issued to vendor is:
 - (a) 30,000, (b) 28,800, (c) 32,000.
- 4. Convertible debentures cannot be issued at a discount if:
 - (a) They are to be immediately converted,
 - (b) They are not to be immediately converted,
 - (c) None of the above.

- 5. When debentures are issued at par and are redeemable at a premium, the loss on such an issues debited to:
 - (a) Statement of profit and loss,
 - (b) Debentures applications and allotment account,
 - (c) Loss on issue of debentures account.
- Excess value of net assets over purchase consideration at the time of purchase of business is credited to:
 - (a) General reserve.
 - (b) Capital reserve,
 - (c) Vendors' account.
- 7. Own debentures are those debentures of the company which:
 - (a) The company allots to its own promoters,
 - (b) The company allots to its Director,
 - (c) The company purchases from the market and keeps them as investments.
- 8. Profit on cancellation of own debentures is transferred to:
 - (a) Statement of profit and loss,
 - (b) Debenture redemption reserve,
 - (c) Capital reserve.

Test your Understanding - III

- 1. Issue of debentures to a vendor in consideration of business purchase.
- 2. Issue of debentures at a discount.
- 3. Issue of debentures issued at a discount redeemable at a premium.
- 4. Purchase of own debentures by a company.
- 5. Writing off discount on issue of debentures.

Identify the account to be credited in case of following transactions

- 1. Debentures issued at a discount and are redeemable at par.
- 2. Issue of debentures at a premium.
- 3. Issue of debentures at a discount redeemable at a premium.
- 4. Issue of debentures at a premium redeemable at a premium.
- 5. Writing off discount on issue of debentures.

Do it Yourself

- 1. G. Ltd., has Rs. 800 lakh, 10% debentures of Rs. 100 each due for redemption on March 31, 2017. Give journal entries for issue and redemption of debentures.
- 2. R. Ltd., issued 88,00,000, 8% debenture of Rs. 50 each at a premium of 5 % on July 1, 2014 redeemable at par by conversion of debentures into shares of Rs. 20 each at a premium of Rs. 2 per share on June 30, 2017. Record necessary entries for redemption of debentures.
- 3. C. Ltd. has outstanding 11,00,000, 10% debentures of Rs. 200 each, on April 1, 2017. The Board of Directors have decided to purchase 20% of own

- debentures for cancellation at Rs. 200 each. Record necessary entries for the same.
- 4. Record necessary journal entries in the books of the Company in each of the following cases for redemption of 1,000, 12% Debentures of Rs. 10 each issued at par:
 - (a) Debentures redeemed at par by conversion into 12% Preference Shares of Rs. 100 each.
 - (b) Debentures redeemed at a premium of 10% by conversion into Equity Shares issued at par.
 - (c) Debentures redeemed at a premium of 10% by conversion into Equity Shares issued at a premium of 25%.
- 5. On 31 March, 2017 Janta Ltd. converted its Rs. 88,00,000, 6% debentures into equity shares of Rs. 20 each at a premium of Rs. 2 per share. Record necessary journal entries in the books of the company for redemption of debentures.
- 6. Anirudh Ltd. has 4,000, 8% debentures of Rs. 100 each due for redemption on March 31, 2017. The company has a debenture redemption reserve of Rs. 50,000 on that date. Assuming that no interest is due, record the necessary journal entries at the time of redemption of debentures.

Do it Yourself

- 1. X Ltd. were to redeem 8,000, 10% debentures of Rs. 100 each on April 1, 2017 at a premium of 5%. The company has a surplus of Rs. 9,00,000 in the statement of profit and loss. The company closes its books on December 31 every year. What journal entries the company will be recording to redeem the above debentures?
- 2. G Ltd. issued 5,00,000, 12% debentures of Rs. 100 each on April 1, 2013 redeemable at par on July 1, 2017. The company received applications for 6,00,000 debentures and the allotment was made to all the applicants on pro-rata basis. The debentures were redeemed on due date. How much amount of Debenture Redemption Reserve is to be created before the redemption is carried out? Also record necessary journal entries regarding issue and redemption of debenture. Ignore tax deducted at source.

Terms Introduced in the Chapter

- 1. Debenture
- 2. Bond
- 3. Mortgaged Debenture
- 4. Perpetual Debenture
- 5. Zero Coupon Rate Debenture
- 6. Specific Coupon Rate Debenture
- 7. Registered Debenture
- 8. Bearer Debenture
- 9. Charge
- 10. Fixed Charge
- 11. Floating Charge
- 12. First Charge
- 13. Maturity Date

- 14. Principal
- 15. Discount/Loss on Issue of Debenture
- 16. Purchase Consideration
- 17. Redemption of Debenture
- 18. Draw of Lots
- 19. Own Debentures
- 20. Redemption out of Capital
- 21. Redemption out of Profits
- 22. Redemption of Convertible Debenture
- 23. Debentures Sinking Fund
- 24. Collateral Security
- 25. Second Charge
- 26. Purchase of Debenture from Open Market

Summary

Debenture: Debenture is the acknowledgements of debt. It is a loan capital raised by the company from general public. A person/holder of such a written acknowledgement is called 'debenture holder'.

Bond: Bond is similar to debenture in terms of contents and texture. The only difference is with respect of issue condition, i.e, bonds can be issued without pre-determined rate of interest as it is in case of deep discount bonds.

Charge: Charge is an incumbrance to meet the obligation under trust deed on certain assets which company agrees to mortgage either by way of first or second charge. First charge implies the priority in repayment of loan. Those who hold first charge against any specific asset will realise their claim from the net realisable value of such assets. Any amount of surplus from such assets given under first charge will be utilised for setting the claims for holder of second charge.

Types of Debenture: Debentures are of various types such as: secured and unsecured debentures redeemable and perpetual debentures, convertible and non-convertible debentures, zero coupon rate and specific rate, registered and bearer debentures.

Issue of Debenture: Debentures are said to be issued at par when the amount to be collected on them is equal to their nominal or face value. If the issue price is more than nominal or face value, it is said to be issued at a premium. If the issue price is less than the nominal or face value, it is said to be issued on discount. The amount received as premium is credited to 'securities premium account' whereas amount of discount allowed is debited to "loss/discount on issue" and is written-off over the years

Issue of Debentures for consideration other than Cash: Sometimes debentures can be issued to vendor or suppliers of patents, copyrights and for transfer of intellectual property rights on preferential basis without receiving money in cash.

Purchase Consideration: Purchase consideration is amount paid by purchasing company in consideration for purchase of assets/business firm, another enterprise/vendor.

Collateral Security: Any security in addition to primary security is called 'collateral security'.

Redemption of Debenture: Means discharge of liability on account of debenture/bond by repayment made to debenture holders Normally, the redemption takes place on the expiry of period for which they have been issued, depending upon the terms and conditions of issue.

Questions for Practice

Short Answer Questions

- 1. What is meant by a Debenture?
- 2. What does a Bearer Debenture mean?
- 3. State the meaning of 'Debentures issued as a collateral security'.
- 4. What is meant by 'Issue of debentures for consideration other than cash'?
- 5. What is meant by Issue of debenture at discount and redeemable at premium?
- 6. What is 'Capital Reserve'?
- 7. What is meant by a 'Irredeemable Debenture'?

- 8. What is a 'Convertible Debenture'?
- 9. What is meant by 'Mortgaged Debentures'?
- 10. What is discount on issue of debentures?
- 11. What is meant by 'Premium on Redemption of Debentures'?
- 12. How debentures are different from shares? Give two points.
- 13. What is meant by redemption of debentures?
- 14. Can the company purchase its own debentures?
- 15. What is meant by redemption of debentures by conversion?
- 16. How would you deal with 'Premium on Redemption of Debentures?
- 17. What is meant by redemption of debentures by "Parchase in Open Market"?

Long Answer Ouestions

- 1. Explain the different types of debentures?
- 2. Distinguish between a debenture and a share. Why debenture is known as loan capital? Explain.
- 3. Describe the meaning of 'Debenture Issued as Collateral Securities'. What accounting treatment is given to the issue of debentures in the books of accounts?
- 4. Explain the different terms for the issue of debentures with reference to their redemption.
- 5. Differentiate between redemption of debentures out of capital and out of profits.
- 6. Explain the guidelines of SEBI for creating Debenture Redemption Reserve.
- 7. Describe the steps for creating Sinking Fund for redemption of debentures.
- 8. Can a company purchase its own debentures in the open market? Explain.
- 9. What is meant by conversion of debentures? Describe the method of such a conversion.

Numerical Questions

- 1. G. Ltd. a listed company issued 75,00,000, 6% debentures of Rs. 50 each at par payable Rs. 15 on application and Rs. 35 on allotment, redeemable at par after 7 years from the date of issue of debentures. Record necessary entries in the books of Company.
- 2. Y. Ltd. issued 2,000, 6% debentures of Rs. 100 each payable as follows: Rs. 25 on application; Rs. 50 on allotment and Rs. 25 on first and final call. Record necessary entries in the books of the company.
- 3. A. Ltd. issued 10,000, 10% debentures of Rs. 100 each at a premium of 5% payable as follows:
 - Rs. 10 on Application;
 - Rs. 20 along with premium on allotment and balance on first and final call.
 - The debentuers were fully subscribed and all money was duly received.
 - Record necessary Journal entries. Also show how the amount will appear in the balance sheet.

- 4. A. Ltd. issued 90,00,000, 9% debenture of Rs. 50 each at a of 8%, redeemable at par any time after 9 years Record necessary entries in the books of A. Ltd., for issue of debentures.
- 5. A. Ltd. issued 4,000, 9% debentures of Rs. 100 each on the following terms:

Rs. 20 on Application;

Rs. 20 on Allotment:

Rs. 30 on First call; and

Rs. 30 on Final call.

The public applied for 4,800 debentures. Applications for 3,600 debentures were accepted in full. Applications for 800 Debentures were allotted 400 debentures and applications for 400 Debentures were rejected. All money called and duly received. Record necessary journal entries.

- 6. T. Ltd. offered 2,00,000, 8% debenture of Rs. 500 each on June 30, 2014 at a premium of 10% payable as Rs. 200 on application (including premium) and balance on allotment, redeemable at par after 8 years But application are received for 3,00,000 debentures and the allotment is made on pro-rata basis. All the money due on application and allotment was received. Record necessary entries regarding issue of debentures.
- 7. X. Ltd. invited applications for the issue of 10,000, 14% debentures of Rs. 100 each payable as to Rs. 20 on application, Rs. 60 on allotment and the balance on call. The company receives applications for 13,500 debentures, out of which applications for 8,000 debentures are allotted in full, applications for 5000 debentures were allotted 40% of received application, and the remaining applications were rejected. The surplus money on partially allotted applications is utilised towards allotment. All the sums due are duly received. Record necessary journal entries regarding issue of debentures.
- 8. R. Ltd. offered 20,00,000, 10% debentures of Rs. 200 each at a discount of 7% redeemable at premium of 8% after 9 years Record necessary entries in the books of R. Ltd.
- 9. M. Ltd. took over assets of Rs. 9,00,00,000 and liabilities of Rs. 70,00,000 of S.Ltd. and issued 8% debentures of Rs. 100 each. Record necessary entries in the books of M. Ltd.
- 10. B. Ltd. purchased assets of the book value of Rs. 4,00,000 and took over the liability of Rs. 50,000 from Mohan Bros. It was agreed that the purchase consideration, settled at Rs. 3,80,000, be paid by issuing debentures of Rs. 100 each.

What Journal entries will be made in the following three cases, if debentures are issued: (a) at par; (b) at 10% discount; (c) at premium of 10%? It was agreed that any fraction of debentures be paid in cash.

(Note: Goodwill Rs. 30,000)

Answer: No. of debuntures issued: (a) 3.800 (b) 4.222 (c) 3.454

11. X. Ltd. purchased a Machinery from Y. Ltd. at an agreed purchase consideration of Rs. 4,40,000 to be satisfied by the issue of 12% debentures of Rs. 100 each at a premium of Rs. 10 per debenture. Journalise the transactions.

Answer: No. of debuntures issued 4.000

- 12. X. Ltd. issued 15,000, 10% debentures of Rs. 100 each. Give journal entries and present it in the balance sheet in each of the following cases:
 - (i) The debentures are issued at a premium of 10%:
 - (ii) The debentures are issued at a discount of 5%;
 - (iii) The debentures are issued as a collateral security to bank against a loan of Rs. 12,00,000; and
 - (iv) The debentures are issued to a supplier of machinery costing Rs. 13,50,000.
- 13. Journalise the following:
 - (i) A debenture issued at Rs. 95, repayable at Rs. 100;
 - (ii) A debenture issued at Rs. 95, repayable at Rs. 105; and
 - (iii) A debenture issued at Rs. 100, repayable at Rs. 105; The face value of debenture in each of the above cases is Rs. 100.
- 14. A. Ltd. issued 50,00,000, 8% debentures of Rs. 100 at a discount of 6% on April 01, 2018, redeemable at premium of 4% by draw of lots as under:

20,00,000 debentures on March, 2020

10,00,000 debentures on March, 2021

20,00,000 debentures on March, 2022

Record journal entries for issue of debuntures. Prepare discount/loss on issue of debenture account.

- 15. A listed company issues the following debentures:
 - (i) 10,000, 12% debentures of Rs. 100 each at par but redeemable at premium of 5% after 5 years;
 - (ii) 10,000, 12% debentures of Rs. 100 each at a discount of 10% but redeemable at par after 5 years;
 - (iii) 5,000, 12% debentures of Rs. 1000 each at a premium of 5% but redeemable at par after 5 years;
 - (iv) 1,000, 12% debentures of Rs. 100 each issued to a supplier of machinery costing Rs. 95,000. The debentures are repayable after 5 years; and
 - (v) 300, 12% debentures of Rs. 100 each as a collateral security to a bank which has advanced a loan of Rs. 25,000 to the company for a period of 5 yearsPass the journal entries to record the: (a) issue of debentures; and (b) repayment of debentures after the given period.
- 16. A listed company issued debentures of the face value of Rs. 5,00,000 at a discount of 6% on April 01, 2014. These debentures are redeemable by annual drawings of Rs.1,00,000 made on March 31 each year starting from March 31, 2016.
 - Give journal entries for issue of debuntures, writing-off discount and regarding redemption of debentures.

- 17. B. Ltd. a listed company issued debentures at 94% for Rs. 4,00,000 on April 01, 2011 repayable by five equal drawings of Rs. 80,000 each. The company prepares its final accounts on March 31 every year. Give Journal entries for issues and redemption of debentures.
- 18. B. Ltd. issued 1,000, 12% debentures of Rs. 100 each on April 01, 2014 at a discount of 5% redeemable at a premium of 10%.
 - Give journal entries relating to the issue of debentures and debentures interest for the period ending March 31, 2015 assuming that interest is paid half-yearly on September 30 and March 31 and tax deducted at source is 10%.
- 19. Jay Kay Ltd. an 'other listed company' issued 60,000 12% debentures of Rs. 100 each at par redeemable at the end of 5 years at a premium of 20%. On this date, there existed a balance of Rs. 5,00,000 in securities premium reserve account. The company created the required amount of debenture redemption reserve in 3 equal instalments on March 31, 2017, 2018 and 2019. It invested in specified securities (DRI) the required amount on April, 01 of the financial year Debentures were duly redeemed on the record necessary journal entries for:
 - (i) Issue of debentures
 - (ii) Writing off loss on issue of debentures.
- (iii) Interest and debentures for 2015-16 assuring if is paid annually & tax deducted at service is 10%.
- (iv) Regarding redemption of debentures.
- 20. Madhur Ltd., has outstanding 9% debentures of Rs. 50,00,000 redeemable at par on January 01, 2020. Debenture Redemption Reserve of Rs. 2,00,000 on March 31, 2018 and balance of required amount of DRR was created on March 31, 2019. The company invested in specified securities (DRI) the required amount on April 01, 2019. Debentures were redeemed on the due date. Record necessary journal entries in the books of the company and also prepare the ledger accounts (ignore interest).
- 21. MK Ltd. has outstanding Rs. 30,000 11% debentures of Rs. 100 each redeemable at 10% premium as follows:

March 31, 2018 - 10,000 debentures

March 31, 2019 - 12,000 debentures

March 31, 2020 - Remaining debentures

Pass necessary journal entries in the books of the company.

- 22. X Ltd. had outstanding 20,000 12% debentures of Rs. 100 each redeemable on June 30, 2019. Record necessary journal entries at the time of redemption.
- 23. XYZ Ltd. Issued 6,000, 12% Debentures of ? 50 each on April 1, 2014. Interest on these debenture is payable annually 3151 March each year. The debentures are redeemable in four equal installments at end of third, fourth, fifth and sixth year. You are required to pan journal entries at the time of issue and redemption of debentures in the books of the company under following cases:

- (i) Debentures are issued at par and redeemable at par.
- (ii) Debentures are issued at a premium of 10% and redeemable at par.
- (iii) Debentures are issued at a discount of 10% and redeemable at par.
- (iv) Debenture are issued at par but redeemable at a premium of 10%.
- (v) Debentures are issued at a premium of 10% and redeemable at premium of 10%.
- (vi) Debenture are issued at a discount of 10% and redeemable at a premium of 10%.

Answers to Test your Understanding

Test your Understanding - I

1. False, 2. True, 3. False, 4. True, 5. True, 6. False, 7. False, 8. True, 9. False, 10. False, 11. False.

Test your Understanding - II

1 (c), 2 (b), 3 (a), 4 (a), 5 (b), 6 (c), 7 (b), 8 (b), 9 (a), 10 (c), 11 (c), 12 (b), 13 (a), 14 (c), 15 (c).

Test vour Understanding - III

- (I) Vendors Account, (2) Surplus i.e, Balance in Statement of Profit and Loss (3) Debenture Redemption Reserve Account, (4) Own Debentures Account, (5) Statement of Profit and Loss.
- (II) (1) Debenture Account, (2) Sinking Fund Account, (3) General Reserve Account, (4) Sinking Fund Account, (5) Loss on Issue of Debentures Account.

LEARNING OBJECTIVES

After studying this chapter, you will be able to:

- explain the nature and objectives of financial statements of a company;
- describe the form and content of Statement of Profit and Loss of a company as per schedule III;
- describe the form and content of balance sheet of a company as per schedule III;
- explain the significance and limitations of financial statements;
 and
- prepare the financial statements.

Taving understood how a company raises its Having understood now a company runce capital, we have to learn the nature, objectives and types of financial statements it has to prepare including their contents, format, uses and limitations. The financial statements are the end products of accounting process. They are prepared following accounting policies consistently accounting standards prescribed in the Companies Act and accounting concepts, principles, procedures and also the legal environment in which the business organisations operate. These statements are the outcome of the summarising process of accounting and are, therefore, the sources of information on the basis of which conclusions are drawn about the profitability and the financial position of a company. Hence, they need to be arranged in a proper form with suitable contents so that the shareholders and other users of financial statements can easily understand and use them in their economic decisions in a meaningful way.

3.1 Meaning of Financial Statements

Financial statements are the basic and formal annual reports through which the corporate management communicates financial information to its owners and various other external parties which include investors, tax authorities, government, employees, etc. These refer to: the balance sheet (position statement) as at the end of accounting period, the statement of profit and loss of a company and the cash flow statement

3.2 Nature of Financial Statements

The chronologically recorded facts about events expressed in monetary terms for a defined period of time are the basis for the preparation of periodical financial statements which reveal the financial position as on a date and the financial results obtained during a period. The American Institute of Certified Public Accountants states the nature of financial statements as, "the statements prepared for the purpose of presenting a periodical review of report on progress by the management and deal with the status of investment in the business and the results achieved during the period under review. They reflect a combination of recorded facts, accounting principles and personal judgements".

The following points explain the nature of financial statements:

- 1. Recorded Facts: Financial statements are prepared on the basis of facts in the form of cost data recorded in accounting books. The original cost or historical cost is the basis of recording transactions. The figures of various accounts such as cash in hand, cash at bank, trade receivables, fixed assets, etc., are taken as per the figures recorded in the accounting books. The assets purchased at different times and at different prices are put together and shown at costs. As these are not based on market prices, the financial statements do not show current financial condition of the concern.
- 2. Accounting Conventions: Certain accounting conventions are followed while preparing financial statements. The convention of valuing inventory at cost or market price, whichever is lower, is followed. The valuing of assets at cost less depreciation principle for balance sheet purposes is followed. The convention of materiality is followed in dealing with small items like pencils, pens, postage stamps, etc. These items are treated as expenditure in the year in which they are purchased even though they are assets in nature. The stationery is valued at cost and not on the principle of cost or market price, whichever is less. The use of accounting conventions makes financial statements comparable, simple and realistic.
- 3. Postulates: Financial statements are prepared on certain basic assumptions (pre-requisites) known as postulates such as going concern postulate, money measurement postulate, realisation postulate, etc. Going concern postulate assumes that the enterprise is treated as a going concern and exists for a longer period of time. So the assets are shown on historical cost basis. Money measurement postulate assumes that the value of money will remain the same in different periods. Though there is drastic change in purchasing power of money, the assets purchased at different times will be shown at

- the amount paid for them. While, preparing statement of profit and loss the revenue is included in the sales of the year in which the sale was undertaken even though the sale price may be received over a number of years. The assumption is known as realisation postulate.
- 4. Personal Judgements: Under more than one circumstance, facts and figures presented through financial statements are based on personal opinion, estimates and judgements. The depreciation is provided taking into consideration the useful economic life of fixed assets. Provisions for doubtful debts are made on estimates and personal judgements. In valuing inventory, cost or market value, whichever is less is being followed. While deciding either cost of inventory or market value of inventory, many personal judgements are to be made based on certain considerations. Personal opinion, judgements and estimates are made while preparing the financial statements to avoid any possibility of over statement of assets and liabilities, income and expenditure, keeping in mind the convention of conservatism.

Thus, financial statements are the summarised reports of recorded facts and are prepared the following accounting concepts, conventions, accounting policies, accounting standards and requirements of Law.

3.3 Objectives of Financial Statements

Financial statements are the basic sources of information to the shareholders and other external parties for understanding the profitability and financial position of any business concern. They provide information about the results of the business concern during a specified period of time in terms of assets and liabilities, which provide the basis for taking decisions. Thus, the primary objective of financial statements is to assist the users in their decision-making. The specific objectives include the following:

- 1. To provide information about economic resources and obligations of a business: They are prepared to provide adequate, reliable and periodical information about economic resources and obligations of a business firm to investors and other external parties who have limited authority, ability or resources to obtain information.
- 2. To provide information about the earning capacity of the business: They are to provide useful financial information which can gainfully be utilised to predict, compare and evaluate the business firm's earning capacity.
- 3. To provide information about cash flows: They are to provide information useful to investors and creditors for predicting, comparing and evaluating, potential cash flows in terms of amount, timing and related uncertainties.

- 4. *To judge effectiveness of management:* They supply information useful for judging management's ability to utilise the resources of a business effectively.
- 5. Information about activities of business affecting the society: They have to report the activities of the business organisation affecting the society, which can be determined and described or measured and which are important in its social environment.
- 6. Disclosing accounting policies: These reports have to provide the significant policies, concepts followed in the process of accounting and changes taken up in them during the year to understand these statements in a better way.

3.4 Types of Financial Statements

The financial statements generally include two statements: balance sheet and statement of profit and loss which are required for external reporting and also for internal needs of the management like planning, decision-making and control. Apart from these, there is also a need to know about movements of funds and changes in the financial position of the company. For this purpose, a cash flow statement is prepard.

Every company registered under The Companies Act 2013 shall prepare its balance sheet, statement of profit and loss and notes to account thereto in accordance with the manner prescribed in the revised Schedule III to the Companies Act, 2013 to harmonise the disclosure requirement with the accounting standards and to converge with new reforms.

Balance Sheet as at 31st March, 20.....

| Particulars | Note No. | Figure as at the end of Current reporting period | Figure as at the end of Previous reporting period |
|---|----------|--|---|
| I. EQUITY AND LIABILITIES 1) Shareholder's Funds (a) Share Capital (b) Reserves and Surplus (c) Money received against share warrants 2) Share Application money pending allotment | | | |

| , | Non-current Liabilities (a) Long term borrowings (b) Deferred tax liabilities (net) (c) Other long term liabilities (d) Long term provisions Current Liabilities (a) Short-term borrowings (b) Trade payables (c) Other current liabilities (d) Short-term provisions | | |
|--------|---|-----|--|
| | Total | | |
| II. AS | SSETS | | |
| 1) | Non-Current Assets | | |
| | (a) Fixed assets | | |
| | (i) Tangible assets | | |
| | (ii) Intangible assets | | |
| | (iii) Capital work-in-progress | | |
| | (iv) Intangible assets under development | | |
| | (b) Non-current investments | | |
| | (c) Deferred tax assets (net) | 4 | |
| | (d) Long-term loans and advances | | |
| | (e) Other non-current assets | | |
| 2) | Current Assets | | |
| | (a) Current investments | | |
| | (b) Inventories | | |
| | (c) Trade receivables | | |
| | (d) Cash and cash equivalents | | |
| | (e) Short term loans and advances | | |
| | (f) Other current assets | | |
| | Total | | |
| See | accompanying notes to the financial stateme | nts | |

NOTES:

Exhibit. 3.1: Form of Balance Sheet

Important Features of Presentation

- 1. It applies to all Indian companies preparing financial statement as per Schedule III to the Comapnies Act, 2013.
- 2. It does not apply to (i) Insurance or Banking Company, (ii) Company for which a form of balance sheet or income statement is specified under any other Act.
- 3. Accounting standards shall prevail over Schedule III of the Companies Act, 2013.
- 4. Disclosure on the face of the financial statements or in the notes are essential and mandatory.

- 5. Terms in the revised Schedule III will carry the meaning as defined by the applicable accounting standards.
- 6. Balance to be maintained between excessive details that may not assist users of financial statements and not providing important information.
- 7. Current and non-current bifurcation of assets and liabilities is applicable.

Box 1

Rounding-off Rule for figures in the Presentation of Financial Statements

Rounding off of figures to be reported in the financial statements is based on the size of turnover:

- 1. Turnover < Rs.100 crore: Nearest hundreds, thousands, lakhs or millions or decimal thereof:
- 2. Turnover > Rs.100 crore: Nearest lakhs or millions or decimal thereof;
- 8. Rounding off requirements is mandatory (refer box 1).
- 9. Vertical format for presentation of financial statement is prescribed (refer Exhibit 3.1).
- 10. Debit balance in the statement of profit and loss to be disclosed as negative figure under the head "Surplus".
- 11. Mandatory disclosure for share application money pending allotment.
- 12. 'Sundry Debtors' and 'Sundry Creditors' replaced by terms 'Trade Receivables' and 'Trade Payables'.

Shareholders Fund

The shareholders' funds are sub-classified on the face of the balance sheet.

- a) Share Capital
- b) Reserves and Surplus
- c) Money received against Share Warrants

Share Capital

Disclosures relating to share capital are to be given in notes to accounts. The following additions/modifications are significant:

- a) For each class of shares, recognition of the number of shares outstanding at the beginning and at the end of the reporting period is required.
- b) The rights, preferences and restrictions attached to each class of shares including restrictions on the distribution of dividends and repayment of capital.
- c) In order to bring clarity regarding the identity of ultimate owners of the company:

- i) Disclosure of shares in respect of each class in the company held by its holding company or its ultimate holding company including shares held by subsidiaries or associates of holding company or the ultimate holding company in aggregate.
- ii) Disclosure of shares in the company held by each shareholder holding more than 5% shares specifying the number of shares held.
- iii) Disclosure of the following for the period of 5 years immediately preceding the date of the balance sheet:
 - Aggregate number and class of shares allotted as fully paid up pursuant to contracts without payment being received in cash.
 - Aggregate number and class of shares allotted as fully paid up by way of bonus shares.
 - Aggregate number and class of shares bought back.

This may be noted that the information of shareholders funds are presented on the face of financial statements limited only to broad and significant items. Details are given in Notes to Accounts.

- d) For each class of share capital:
 - i) The number and amount of share authorised.
 - ii) The number of shares issued, subscibed, fully paid and subscribed but not fully paid.
 - iii) Par value per share.
 - iv) Reconciliation of the number of shares outstanding at the beginning and end of the accounting period.
 - v) Rights, preferences and restrictions attaching each class of shares including restrictions on the distribution of dividends and repayment of capital.
 - vi) Aggregate number of shares with respect to each class in the company held by its holding company, its ultimate holding company including shares held by or by subsidiaries or associates of the holding company or the ultimate holding company.
 - vii) Shares reserved for issue under options and contracts/ commitments for the sale of shares/disinvestment, including terms and amount.
 - viii) For a period of 5 years immediately proceeding the date at which balance sheet in prepared for:
 - (a) Shares reserved under contracts/commitments.
 - (b) Number and class of shares bought back.
 - (c) Number and class of shares allotted for consideration other than cash and bonus shares.

- ix) Terms of any securities convertible into equity/preference shares issued along with earliest date of conversion in descending order, starting from the farthest such date.
- x) Calls unpaid (aggregate).
- xi) Forfeited shares (amout originally paid up).

Reserve and Surplus

Reserves and Surplus are required to be classified as:

- i) Capital Reserve
- ii) Capital Redemption Reserve
- iii) Securities Premium Reserve
- iv) Debenture Redemption Reserve
- v) Revaluation Reserve
- vi) Share Options Outstanding Account
- vii) Other Reserves (Specifying nature and purpose)
- viii) Surplus: Balance in statement of profit and loss; disclosing allocations and Appropriation such as dividend, bonus shares, transfer to/from reserve, etc.

Significant additions/modifications regarding disclosure of reserve and surplus are as follows:

- a) A reserve specifically represented by earmarked investments shall be termed as "Fund".
- b) 'Debit' balance of statement of profit and loss shall be shown as a negative figure under 'Surplus' head.
- c) The balance of "Reserve and Surplus" after adjusting negative balance of Surplus, if any, shall be shown under "Reserve and Surplus" read even if the resulting figure is 'negative'.
- d) Share options outstanding account has been recognised as a separate item under 'Reserve and Surplus'. ICAI's Guidance Note on Accounting for Employee share based payments requires a credit balance in the 'Stock option outstanding Account' to be disclosed in balance sheet under separate heading' between share capital and reserves and surplus as a part of shareholders fund.

Money Received against share warrants

It is the amount received by the company which are converted into shares at a specified date on a specified rate. The instrument issued against the amount so received as share warrants.

Money received against share warrants' to be disclosed as a separate line item under 'shareholder's fund'.

Illustration 1

Dinkar Ltd. has an authorised capital of Rs. 50,00,000 divided into equity shares of Rs. 100 each. The company invited applications for 40,000 shares, applications for 36,000 shares were received. All calls were made and duly received except for 500 shares on which the final call of Rs. 20 was not received. The company forfeited 200 shares on which final call was not received. Show how share capital will appear in the balance sheet of the company. Also prepare 'Notes to Accounts' for the same.

Solution:

Books of Dinkar Limited Balance Sheet as at (Date)

| Particulars | Note | Amount |
|--|------|-----------|
| | No. | (Rs.) |
| I. Equity and Liabilities 1. Shareholders' funds | | |
| a) Share capital | 1 | 35,90,000 |

Notes to Accounts

| | Dantiaulana | 1 | A + |
|----|---|--------|-----------|
| 1 | Particulars | Amount | Amount |
| | | (Rs.) | (Rs.) |
| 1. | Share capital | | |
| | Authorised share capital | | |
| | 50,000 equity shares of Rs. 100 each | | 50,00,000 |
| | Issued capital | | |
| | 40,000 equity shares of Rs. 100 each | | 40,00,000 |
| | Subscirbed and fully paid up capital | | |
| 1 | 35,500 equity shares of Rs. 100 each | | |
| 1 | fully paid | | 35,50,000 |
| | Subscirbed but not fully paid-up capital | | |
| | 300 equity shares of Rs. 100 each fully | | |
| | called up | 30,000 | |
| 1 | Less: Calls-in-arrears (300 20) | 6,000 | |
| | | 24,000 | |
| | Add: Share forfeiture A/c (200 shares Rs. 80) | 16,000 | 40,000 |
| | | | 35,90,000 |

Current and Non-current Classification

The classified balance sheet in terms of current and non-current assets and current and non-current liabilities have been introduced. The

criteria for defining current assets and liabilities has been clearly spelled out with non-current assets and liabilities being the residual items.

Current/Non-current distinction

An item is classified as current:

- if it is involved in entity's operating cycle or,
- is expected to be realised/settled within twelve months or,
- if it is held primarily for trading or,
- is cash and cash equivalent or,
- if entity does not have on unconditional rights to defer settlement of liability for atleast 12 months after the reporting period,
- Other assets and liabilities are non-current.

Illustration 2

Show the following items in the balance sheet of Amba Ltd. as on March 31, 2017:

| | 145. |
|----------------------------------|-----------|
| 8% Debentures | 10,00,000 |
| Equity share capital | 50,00,000 |
| Securities premium | 20,000 |
| Preliminary expenses | 40,000 |
| Statement of Profit & Loss (cr.) | 1,50,000 |
| Loose tools | 20,000 |
| Bank balance | 60,000 |
| Cash in hand | 38,000 |

Solution:

Books of Amba Ltd. *Balance Sheet as at March 31, 2017

| Particulars | Note | Amount |
|------------------------------|------|-----------|
| | No. | (Rs.) |
| I. Equity and Liabilities | | |
| Shareholders' Funds | | |
| a) Share capital | | 50,00,000 |
| b) Reserve and surplus | 1 | 1,30,000 |
| 2. Non-current Liabilities | | |
| a) Long-term borrowings | 2 | 10,00,000 |
| II. Assets | | |
| Current assets | | |
| a) Inventories | 3 | 20,000 |
| b) Cash and cash equivalents | 4 | 98,000 |
| c) Other current assets | 5 | 10,000 |

^{*} Relevant items only

Notes to Accounts

| | Particulars | | Amount | Amount |
|----|------------------------------------|----------|----------|-----------|
| | | | (Rs.) | (Rs.) |
| 1. | Reserve and surplus | | | |
| | Securities premium | 20,000 | | |
| | Less: Preliminary expenses | (40,000) | | |
| | - | | (20,000) | |
| | Statement of profit and loss | | 1,50,000 | 1,30,000 |
| | | | | |
| 2. | Long-term borrowings | | | |
| | 8% debentures | | | 10,00,000 |
| 3. | Inventory | | | |
| | Loose tools | | | 20,000 |
| 4. | Cash and cash equivalents | | | |
| | Bank balance | | 60,000 | |
| | Cash in hand | | 38,000 | 98,000 |
| 5. | Other current assets | | | |
| | Discount on issue of 8% debentures | | | 10,000 |
| | (of Rs. 40,000) | | | 7 |
| | | | | |

Important points:

- Preliminary expenses are to be written-off completely in the year in which such expenses are incurred. They should be written-off first from securities premium and the balance if any, from statement of profit & loss.
- Borrowing costs such as discount on issue of debentures should be written-off in the same year in which debuntures are issued.

Share application money pending allotment

Share application money not exceeding the issued capital and to the extent non-refundable shall be classified as non-current. It will be shown on this face of balance sheet as share application money pending allotment.

Borrowings

Total borrowings are categorised into long-term borrowings, short-term borrowings and current maturities to long-term debt.

- (i) Loans which are repayable in more than twelve months/operating cycle are classified as long-term borrowings on the face of balance sheet.
- (ii) Loans repayable on demand or whose original tenure is not more than twelve months/operating cycle are classified as short-term borrowings on the face of balance sheet.

(iii) Current maturities to long-term loan include amount repayable within twelve months/operating cycle under other current liabilities with Note to Account.

Deferred tax assets/liabilities are always non-current. This is in accordance with Schedule III of the Companies Act.

Trade payables

Sundry creditors have been replaced with the term Trade payables and are classified as current and non-current. Trade payables to be settled beyond 12 months from the date of balance sheet or beyond the operating cycle are classified under "other long-term liabilities" with Note to Account. For example, purchase of goods and services in normal course of business. The balance of trade payables are classified as current liabilities on the face of balance sheet.

Proposed Dividend

Proposed dividend is proposed by the Board of Directors and declared (approved) by the shareholders in their Annual General Meeting. Board of Directors propose the dividend after the annual accounts for the year have been prepared. Annual General Meeting of the shareholders is held thereafter meaning it is held in the next financial year.

Shareholders may reduce the amount of proposed dividend but cannot increase it. Since declaration of proposed (final) dividend is contingent upon shareholders approval, Proposed dividend is shown as contingent liability.

AS-4, Contingencies and Events Occurring after the Balance Sheet Date prescribes that proposed dividend will be shown in the Notes to Accounts.

After the Proposed dividend is declared by the shareholders, it becomes a liability for the company and is accounted in the books. As a consequence, proposed dividend of previous year will be declared (approved) by the shareholders in the current year and this declared (approved) proposed dividend will be accounted during the year. Proposed dividend for the current year will be relevant for the next financial year.

Briefly, proposed dividend of previous year will be accounted in the current year after it is declared (approved) by the shareholders in their annual general meeting.

Provisions

The amount of provision settled within 12 months from balance sheet date or within operating cycle period from date of its recognition is classified as short term provisions and shown under current liabilities on the face of balance sheet. Others are depicted as long-term provisions under non-current liabilities on the face of balance sheet.

Fixed assets

There is no change in the treatment of fixed assets. Both tangible and intangible assets are non-current. This may also be noted if the useful life of the asset is less than 12 months, it will still fall under non-current.

Investments

Investments are also classified into current and non-current categories. Investments expected to realise within twelve months are considered as current investments under current assets. Others are classified as non-current investments under non-current assets. Both are however shown on the face of the balance sheet.

Inventories

All inventories are always treated as current.

Trade receivables

Trade receivables realised beyond twelve months from reporting date/operating cycle starting from the date of their recognition are classified as "Other non-current assets" under the head non-current assets with Note to Accounts. For example, sale of goods or services rendered in normal course of business. Others are classified as current assets and shown on the face of the balance sheet.

Cash and cash equivalent

It is always current however, amounts which qualify as cash and cash equivalents as per AS-3 is shown here. The supremacy is accorded to AS over Schedule III, cash and cash equivalents are to the disclosed in accordance to the prescribed standard.

Illustration 3

Show the following items in the balance sheet of Sunfill Ltd. as at March 31, 2017:

| Particulars | Amount (Rs.) |
|--|--------------|
| General Reserve (since 31 March 2012) | 5,00,000 |
| Statement of profit & loss (debit balance) for 2016–17 | (3,00,000) |

Solution:

Books of Sunfill Ltd. Balance Sheet as at March 31, 2017

| Particulars | Note | 31 st March | 31 st March |
|--|------|------------------------|------------------------|
| | No. | 2017 (Rs.) | 2016 (Rs.) |
| I. Equity and Liabilities 1. Shareholders' Funds Reserve and surplus | 1 | 2,00,000 | 5,00,000 |

Notes to Accounts

| Particulars Particulars | Amount |
|------------------------------------|----------|
| | (Rs.) |
| Reserve and surplus | |
| General Reserve (1 April, 2016) | 5,00,000 |
| Less: Statement of profit and loss | 3,00,000 |
| (Dr. balance) | |
| | 2,00,000 |

Illustration 4

Show the following items in the balance sheet of Avalon Ltd., as at March 31, 2017:

| | (Rs.) in Lakh |
|--|------------------|
| General Reserve (since 31 March 2016) | 5 |
| Statement of Profit & Loss (Debit Balance) for 2016–17 | (8) |

Solution:

Books of Avalon Ltd. Balance Sheet as at March 31, 2017

| Particulars | Note | 31 March |
|---------------------------|------|------------|
| | No. | 2017 (Rs.) |
| I. Equity and Liabilities | | |
| 1. Shareholders' Funds | | |
| a) Reserve and Surplus | 1 | (3,00,000) |

Notes to Accounts

| Notes to Accounts | |
|--|------------------------|
| Particulars | Amount |
| | (Rs.) |
| 1. Reserve and Surplus | |
| i) General reserve (1 April, 2012) | 5,00,000 (8,00,000) |
| ii) Less: Statement of profit and loss | (8,00,000) |
| (debit balance) | (3,00,000) |

Illustration 5

Arushi Ltd. issued 5,000, 10% debentures of Rs. 100 each at par but redeemable at a premium of 5% after 5 years. Show these items in the balance sheet of the company.

Solution:

| Particulars | Note | Amount |
|--------------------------------|------|----------|
| | No. | (Rs.) |
| I. Equity and Liabilities | | |
| 1. <u>Shareholders' Funds</u> | | |
| Reserve and Surplus | | (25,000) |
| a) Long term borrowings | 2 | 5,00,000 |
| b) Other long-term liabilities | 3 | 25,000 |
| Total | | 5,00,000 |
| II. Asset | | |
| 1. <u>Current Assets</u> | | |
| a) Cash and Cash Equivalents | | 5,00,000 |
| Total | | 5,00,000 |

Notes to Accounts

| Particulars | Amount |
|--|----------|
| | (Rs.) |
| 1. Reserves and Surplus i.e. Balance in Statement of Profit & Loss | (25,000) |
| 2. Long Terms Borrowings | Y |
| 5000, 10% debenture Rs. 100 each | 5,00,000 |
| 3. Other long term liabilities | 25,000 |
| Premium on Redemption of Debentures | |
| 4. Cash and Cash Equivalents | |
| Cash at bank. | |
| | 5,00,000 |

Do it yourself

Classify the following items in the balance sheet of a company under Major heads and Sub-heads

| S. No. | Items | Major Head | Sub-head (if any) |
|--------|---------------------------------|------------|-------------------|
| 1. | Goodwill | | |
| 2. | Forfeited shares | | |
| 3. | Acceptances | | |
| 4. | Preliminary expenses | | |
| 5. | Capital reserve | | |
| 6. | Loans from banks | | |
| 7. | Investment in shares and | | |
| | debentures | | |
| 8. | Interest accrued and due on | | |
| | debentures | | |
| 9. | Interest accrued but not due on | | |
| | Secured Loans | | |
| 10. | Interest accrued but not due on | | |
| | Unsecured Loans | | |
| 11. | Interest accrued on Investments | | |

| 1 1 | 12. | Cumlus | 1 1 |
|-----|-------------------------|---------------------------------------|------|
| Ш | 12. 13. | Surplus Securities Premium Reserve | |
| Ш | 13. 14. | Loose Tools | |
| Ш | 15. | Provision for Taxation | |
| Ш | 16. | Under writing Commission | |
| Ш | 10. 17. | <u> </u> | |
| Ш | 17. | S | |
| Ш | 19. | | |
| Ш | 20. | Live stock | |
| Ш | 20. | | |
| Ш | 21. | Uncalled liability on shares partly | |
| Ш | 22. | paid | |
| Ш | 23. | Pre-paid Insurance | |
| Ш | $\frac{23}{24}$. | Stores and spare parts | |
| Ш | 2 4 . 25. | Advances from customers | |
| Ш | 26. | Debentures redemption reserve | |
| Ш | 20. 27. | | 0.7 |
| Ш | 21. | debentures | |
| Ш | 28. | Loss on issue of debentures | |
| Ш | 29. | | . 60 |
| Ш | 30. | Debentures redemption fund | |
| Ш | | investment | |
| Ш | 31. | Vehicles |) · |
| Ш | 32. | Advances to suppliers | |
| Ш | 33. | Patents, trademarks, design | |
| Ш | 34. | Calls in advance | |
| Ш | 35. | Deposits with custom authorities | |
| Ш | 36. | Arrears of fixed cumulative | |
| Ш | | dividend | |
| Ш | 37. | Furniture and fittings | |
| Ш | 38. | Brokerage on issues of shares | |
| Ш | 39. | Statement of profit & loss (Dr.) | |
| Ш | 40. | Capital work-in-progress | |
| Ш | 41. | Provision for doubtful debts | |
| Ш | 42. | Statement of profit & loss (Cr.) | |
| Ш | 43. | Uncalled liability on partly paid | |
| Ш | | shares held as investments | |
| Ш | 44. | Claims against the company not | |
| Ш | | acknowledged as debt | |
| | 45. | Capital redemption reserve | |
| | 46. | Public deposits | |
| | 47. | Authorised Capital | |

Illustration 6

From the given particulars of Shine and Bright Co. Ltd., as at March 31, 2017, prepare balance sheet in accordance to the Schedule III:

| Particulars Particulars | Amount (Rs.) | Particulars | Amount (Rs.) |
|---|--|--|--|
| Preliminary expenses 10% Debentures Stock in trade Cash at bank Bills receivables | 2,40,000 2,00,000 1,40,000 1,35,000 1,20,000 | Goodwill Loose Tools Motor vehicles Provision for tax | 30,000 12,000 4,75,000 16,000 |

Solution:

Book of Shine and Bright Ltd. Balance Sheet as at March 31, 2017

| Particulars | Note | Figure as | Figure as |
|---|-------------|--|-------------|
| | No. | at the end | at the end |
| | | of current | of previous |
| | | reporting | reporting |
| | | period | period |
| I. Equity and Liabilities | | | |
| 1. Non-current Liabilities | | . 4. 60 | |
| a) Long-term borrowings | 1 | 2,00,000 | |
| 2. Current liabilities | | | |
| a) Short-term provisions | 2 | 16,000 | |
| II. Assets | | | |
| 1. Non-current assets | | | |
| a) Fixed assets | | | |
| Tangible assets | 3 | 4,75,000 | |
| Intangible assets | 4 | 30,000 | |
| 2. Other non-current assets* | 5 | 2,60,000 | |
| Current assets | | | |
| a) Inventories | 6 | 1,52,000 | |
| b) Trade receivables | 7 | 12,000 | |
| c) Cash and cash equivalents | | 1,35,000 | |
| Intangible assets 2. Other non-current assets* Current assets a) Inventories b) Trade receivables | 4 5 6 | 30,000 2,60,000 1,52,000 12,000 | |

Notes to Accounts

| Particulars | Amount |
|---------------------------|----------|
| | (Rs.) |
| 1. Long-term borrowings: | |
| 10% debentures | 2,00,000 |
| 2. Short-term provisions: | |
| Provision for taxation | 16,000 |
| 3. Fixed assets: | |
| (i) Tangible assets | |
| Motor vehicles | 4,75,000 |
| | |

| (ii) Intangible assets | | |
|-----------------------------|----------|----------|
| Goodwill | | 30,000 |
| 4. Other non-current assets | | |
| Preliminary expenses | 2,40,000 | |
| | | 2,40,000 |
| 5. Inventories | | |
| Stock in trade | 1,40,000 | |
| Loose tools | 12,000 | 1,52,000 |
| 6. Trade receivables | | |
| Bills receivables | | 12,000 |
| 7. Cash & cash equivalents | | |
| Cash at bank | | 1,35,000 |
| | | |

3.4.2 Form and content of Statement of Profit and Loss Statement of Profit and Loss for the year ended

| | Particulars | Note No. | Figure as | Figure as |
|-------|---|----------|------------|-------------|
| | | | at the end | at the end |
| | 0- | | of Current | of Previous |
| | | | reporting | reporting |
| | | | period | period |
| I | Revenue from operations | | | |
| II | Other income | | | |
| III | Total Revenue (I+II) | | | |
| IV | Expenses: | | | |
| | Cost of materials consumed | | | |
| | Purchases of stock-in-trade | | | |
| | Changes in inventories of finished goods | | | |
| | Work-in-progress and stock-in-trade | | | |
| | Employee benefits expense | | | |
| | Finance costs | | | |
| | Depreciation and amortisation expense | | | |
| | Other expenses | | | |
| | Total expenses | | | |
| V | Profit before extraordinary items and tax | | | |
| | (III-IV) | | | |
| VI | | | | |
| VII | J | | | |
| ,,,,, | (V-VI) | | | |
| VIII | | | | |
| | Profit before tax (VII-VIII) | [| | |

| X | Tax expense: | | |
|------|--|--|---|
| 1 | (1) Current tax | | |
| | (2) Deferred tax | | |
| XI | Profit/(Loss) for the period from continuing | | |
| | operations (IX-X) | | |
| XII | Profit/(Loss) from discontinuing operations | | |
| XIII | Tax expense of discontinuing operations | | |
| XIV | Profit/(Loss) from Discontinuing operations | | |
| | (after tax) (XII-XIII) | | |
| XV | Profit/(Loss) for the period (XI + XIV) | | |
| XVI | Earnings per equity share: | | |
| | (1) Basic | | |
| | (2) Diluted | | |
| | | | _ |

Exhibit. 3.2: Form of Statement of Profit and Loss

The items of statement of profit and loss are discussed as follows:

1. Revenue from operations

This includes:

- (i) Sale of products
- (ii) Sale of services
- (iii) Other operating revenues

In respect to a finance company, revenue from operations shall include revenue from interest, dividend and income from other financial services.

It may be noted that under each of the above heads shall be disclosed separately by way of notes to accounts to the extent applicable.

- 2. Other income
 - (i) Interest income (in case of a company other than a finance company),
 - (ii) Dividend income,
 - (iii) Net gain/loss on sale of investments,
 - (iv) Other non-operating income (net of expenses directly attributable to such income).

3. Expense

| Expenses incurred to earn the income shown under various heads as discussed below: | | | |
|--|---|--|--|
| (a) Cost of Materials | It applies to manufacturing companies. It consists of raw materials and other materials consumed in manufacturing of goods. | | |
| (b)Purchase of Stock-in-trade | It means purchases of goods for the purpose of trading. | | |

| (c) Changes in inventories of finished goods, WIP and stock-in-trade | It is the difference between opening inventory (stock) of finished goods, WIP and stock-in-trade and closing inventory. | |
|--|---|--|
| (d)Employees benefit expenses | Expenses incurred on employees towards salary, wages, leave encashment, staff welfare, etc., are shown under this head. Employees benefit expenses may be further categorised into direct and indirect expenses. | |
| (e) Finance cost | It is the expenses towards interest charges during the year on the borrowings. Only the interest cost is to be shown under this head. Other financial expenses such as bank charges are shown under "Other Expenses". | |
| (f) Depreciation | Depreciation is the diminution in the value of fixed assets whereas amortisation is writing off the amount relating to intangible assets. | |
| (g) Other expenses | All other expenses which do not fall in the above categories are shown under other expenses. Other expenses may further be categorised into direct expenses, indirect expenses and non-operating expenses. | |

Illustration 8

From the following particulars, prepare Statement of profit and loss for the year ending March 2017, showing profit before tax as per schedule III of the companies Act-2013.

| Balances | (Rs.) | (Rs.) |
|--|-----------|-----------|
| Plant and Machinery | 1,60,000 | |
| Land | 6,74,000 | |
| Depreciation on Plant and Machinery | 16,000 | |
| Purchases (Adjusted) | 4,00,000 | |
| Closing stock | 1,50,000 | |
| Wages | 1,20,000 | |
| Sales (Net) | | 10,00,000 |
| Salaries | 80,000 | |
| Bank overdraft | | 2,00,000 |
| 10% debentures (issued on 1st April, 2016) | | 1,00,000 |
| Equity share capital – shares of Rs. 100 each (fully paid) | | 2,00,000 |
| Preference share capital – 1,000; 6% shares of Rs. 100 | | 1,00,000 |
| each (fully paid) | | |
| | 16,00,000 | 16,00,000 |

Solution

Statement of Profit and Loss for the year ending 31st March, 2017

| | Particulars | Note | Amount |
|-----|--|------|-----------|
| | | No. | (Rs.) |
| I. | Income Devenue from energtions (Sales) | | 10,00,000 |
| | Revenue from operations (Sales) | | 10,00,000 |
| | Total | | 10,00,000 |
| II. | Expenses | | |
| | Cost of materials consumed (Adjusted purchase) | | 4,00,000 |
| | Employees benefit expenses | 1 | 2,00,000 |
| | Finance cost | | 10,000 |
| | Depreciation and amortisation | | 16,000 |
| | Total | | 6,26,000 |
| | Profit before tax (I-II) | | 3,74,000 |

Notes to Accounts

| Particulars | ,0- | Amount (Rs.) | Amount (Rs.) |
|---------------------------|-----|-----------------|-----------------|
| Employee Benefit Expenses | | 1 00 000 | |
| (i) Wages | | 1,20,000 | |
| (ii) Salary | | 80,000 | 2,00,000 |

3.5 Uses and Importance of Financial Statements

The users of financial statements include management, investors, shareholders, creditors, government, bankers, employees and public at large. Financial statements provide the necessary information about the performance of the management to these parties interested in the organisation and help in taking appropriate economic decisions. It may be noted that the financial statements constitute an integral part of the annual report of the company in addition to the directors report, auditors report, corporate governance report, and management discussion and analysis.

The various uses and importance of financial statements are as follows:

- 1. Report on stewardship function: Financial statements report the performance of the management to the shareholders. The gaps between the management performance and ownership expectations can be understood with the help of financial statements.
- 2. Basis for fiscal policies: The fiscal policies, particularly taxation policies of the government, are related with the financial performance of corporate undertakings. The financial statements provide basic input for industrial, taxation and other economic policies of the government.

- 3. Basis for granting of credit: Corporate undertakings have to borrow funds from banks and other financial institutions for different purposes. Credit granting institutions take decisions based on the financial performance of the undertakings. Thus, financial statements form the basis for granting of credit.
- 4. Basis for prospective investors: The investors include both short-term and long-term investors. Their prime considerations in their investment decisions are security and liquidity of their investment with reasonable profitability. Financial statements help the investors to assess long-term and short-term solvency as well as the profitability of the concern.
- 5. Guide to the value of the investment already made: Shareholders of companies are interested in knowing the status, safety and return on their investment. They may also need information to take decision about continuation or discontinuation of their investment in the business. Financial statements provide information to the shareholders in taking such important decisions.
- 6. Aids trade associations in helping their members: Trade associations may analyse the financial statements for the purpose of providing service and protection to their members. They may develop standard ratios and design uniform system of accounts.
- 7. Helps stock exchanges: Financial statements help the stock exchanges to understand the extent of transparency in reporting on financial performance and enables them to call for required information to protect the interest of investors. The financial statements enable the Stock brokers to judge the financial position of different concerns and take decisions about the prices to be quoted.

3.6 Limitations of Financial Statements

Though utmost care is taken in the preparation of the financial statements and provide detailed information to the users, they suffer from the following limitations:

- 1. Do not reflect current situation: Financial statements are prepared on the basis of historical cost. Since the purchasing power of money is changing, the values of assets and liabilities shown in financial statement do not reflect current market situation.
- 2. Assets may not realise: Accounting is done on the basis of certain conventions. Some of the assets may not realise the stated values, if the liquidation is forced on the company. Assets shown in the balance sheet reflect merely unexpired or unamortised cost.

- 3. *Bias:* Financial statements are the outcome of recorded facts, accounting concepts and conventions used and personal judgements made in different situations by the accountants. Hence, bias may be observed in the results, and the financial position depicted in financial statements may not be realistic.
- 4. Aggregate information: Financial statements show aggregate information but not detailed information. Hence, they may not help the users in decision-making much.
- 5. Vital information missing: Balance sheet does not disclose information relating to loss of markets, and cessation of agreements, which have vital bearing on the enterprise.
- 6. *No qualitative information:* Financial statements contain only monetary information but not qualitative information like industrial relations, industrial climate, labour relations, quality of work, etc.
- 7. They are only interim reports: Statement of Profit and Loss discloses the profit/loss for a specified period. It does not give an idea about the earning capacity over time similarly, the financial position reflected in the balance sheet is true at that point of time, the likely change on a future date is not depicted.

Terms Introduced in the Chapter

- 1. Financial Statements
- 2. Statement of profit and loss
- 3. Balance Sheet
- 4. Cost of Material consumed
- 5. Shareholders Funds

Summary

Financial Statements: Financial statements are the end products of accounting process, which reveal the financial results of a specified period and financial position as on a particular date. Financial Statements are prepared and published by corporate undertakings for the benefit of various stakeholders. These statements include Statement of profit and loss and balance sheet. The basic objective of these statements is to provide information required for decision-making by the management as well as other outsiders who are interested in the affairs of the undertaking.

Balance Sheet: The balance sheet shows all the assets owned by the concern, all the obligations or liabilities payable to outsiders or creditors and claims of the owners on a particular date. It is one of the important statements depicting the financial position or status or strength of an undertaking.

Statement of Profit and Loss: The Statement of profit and loss is prepared for a specific period to determine the operational results of an undertaking. It is a statement of revenue earned and the expenses incurred for earning the revenue. It is a performance report showing the changes in income, expenses, profits and losses as a result of business operations during the year between two balance sheet dates.

Significance of Financial Statements: The users of financial statements include Shareholders, Investors, Creditors, Lenders, Customers, Management, Government, etc. Financial statements help all the users in their decision-making process. They provide data about general purpose needs of these members.

Limitations of Financial Statements: Financial statements are not free from limitations. They provide only aggregate information to satisfy the general purpose needs of the users. They are technical statements understood by only persons having some accounting knowledge. They reflect historical information but not current situation, which is essential in any decision making. In addition, one can get idea about the organisation's performance in terms of quantitative changes but not in qualitative terms like labour relations, quality of work, employees satisfaction, etc. The financial statements are neither complete nor accurate as the flow of income and expenses are segregated using best judgement apart from accepted concepts. Hence, these statements need proper analysis before their use in decision-making.

Questions for Practice

Short Answer Questions

- 1. State the meaning of financial statements?
- 2. What are limitations of financial statements?
- 3. List any three objectives of financial statements?
- 4. State the importance of financial statements to:
 - (i) shareholders
 - (ii) creditors
 - (iii) government
 - (iv) investors
- 5. How will you disclose the following items in the Balance Sheet of a company;
 - (i) Current assets, inventory
 - (ii) Contigent liabilities in notes to accounts
 - (iii) Shareholders Funds, Reserve and Surplus
 - (iv) Fixed Assets, Intangible Assets

- (v) Proposed Dividend for the current year
- (vi) Non Current Liabilities
- (vii) Arrears of Dividend on Commulative Preference Shares.

Long Answer Questions

- 1. Explain the nature of the financial statements.
- 2. Explain in detail about the significance of the financial statements.
- 3. Explain the limitations of financial statements.
- 4. Prepare the format of statement of profit and loss and explain its items upto the as certainment of profit before tax.
- 5. Prepare the format of balance sheet and explain the various elements of balance sheet.
- 6. Explain how financial statements are useful to the various parties who are interested in the affairs of an undertaking?
- 7. 'Financial statements reflect a combination of recorded facts, accounting conventions and personal judgements'. Discuss.
- 8. Explain the process of preparing income statement and balance sheet.

Numerical Questions

1. Show the following items in the balance sheet as per the provisions of the companies Act, 2013 in Schedule III:

| Particulars | (Rs.) | Particulars | (Rs.) |
|-----------------------------|----------|-------------------|----------|
| Preliminary Expenses | 2,40,000 | Goodwill | 30,000 |
| Discount on issue of shares | 20,000 | Loose tools | 12,000 |
| 10% Debentures | 2,00,000 | Motor Vehicles | 4,75,000 |
| Stock in trade | 1,40,000 | Provision for tax | 16,000 |
| Cash at bank | 1,35,000 | | |
| Bills receivable | 1,20,000 | | |

2. On April 1, 2017, Jumbo Ltd., issued 10,000; 12% debentures of Rs. 100 each a discount of 20%, redeemable after 5 years. The company decided to write-off discount on issue of such debentures on March 31, 2018. Show the items in the balance sheet of the company immediately after the issue of these debentures.

From the following information prepare the balance sheet of Gitanjali Ltd.

Inventories Rs. 14,00,000; Equity Share Capital Rs. 20,00,000; Plant and Machinery Rs. 10,00,000; Preference Share Capital Rs. 12,00,000; Debenture Redemption Reserve Rs. 6,00,000; Outstanding Expenses Rs. 3,00,000; Proposed Dividend Rs. 5,00,000; Land and Building Rs. 20,00,000; Current Investments Rs. 8,00,000; Cash Equivalent Rs. 10,00,000; Short term loan from Zaveri Ltd. (A Subsidiary Company of Twilight Ltd.) Rs. 4,00,000; Public Deposits Rs. 12,00,000.

4. From the following information prepare the balance sheet of Jam Ltd.

Inventories Rs. 7,00,000; Equity Share Capital Rs. 16,00,000; Plant and Machinery Rs. 8,00,000; 8% Preference Share Capital Rs. 6,00,000; General Reserves Rs. 6,00,000; Bills payable Rs. 1,50,000; Provision for taxation Rs. 2,50,000; Land and Building Rs. 16,00,000; Non-current Investments Rs. 10,00,000; Cash at Bank Rs. 5,00,000; Creditors Rs. 2,00,000; 12% Debentures Rs. 12,00,000.

5. Prepare the balance sheet of Jyoti Ltd., as at March 31, 2017 from the following information.

Building Rs. 10,00,000; Investments in the shares of Metro Tyers Ltd. Rs. 3,00,000; Stores & Spares Rs. 1,00,000; Statement of Profit and Loss (Dr.) Rs. 90,000; 5,00,000 Equity Shares of Rs. 20 each fully paid-up; Capital Redemption Reserve Rs. 1,00,000; 10% Debentures Rs. 3,00,000; Unpaid dividends Rs. 90,000; Share options outstanding account Rs. 10,000.

- 6. Brinda Ltd., has furnished the following information:
 - (a) 25,000, 10% debentures of Rs.100 each;
 - (b) Bank Loan of Rs.10,00,000 repayable after 5 years;
 - (c) Interest on debentures is yet to be paid.

Show the above items in the balance sheet of the company as at March 31, 2017.

7. Prepare a balance sheet of Black Swan Ltd., as at March 31, 2017 from the following information:

| | | Rs. |
|------------------------------|---|-------|
| General Reserve | : | 3,000 |
| 10% Debentures | : | 3,000 |
| Balance in Statement of | : | 1,200 |
| Profit and Loss | | |
| Depreciation on fixed assets | : | 700 |
| Gross Block | : | 9,000 |
| Current Liabilities | : | 2,500 |
| Preliminary Expenses | : | 300 |
| 6% Preference Share Capital | : | 5,000 |
| Cash & Cash Equivalents | : | 6,100 |
| | | |



Analysis of Financial Statements

4

You have learnt about the financial statements (Income Statement and Balance Sheet) of companies. Basically, these are summarised financial reports which provide the operating results and financial position of companies, and the detailed information contained therein is useful for assessing the operational efficiency and financial soundness of a company. This requires proper analysis and interpretation of such information for which a number of techniques (tools) have been developed by financial experts. In this chapter we will have an overview of these techniques.

LEARNING OBJECTIVES

After studying this chapter, you will be able to:

- explain the nature and significance of financial analysis;
- identify the objectives of financial analysis;
- describe the various tools of financial analysis;
- state the limitations of financial analysis;
- prepare comparative and common size statements and interpret the data given therein; and
- calculate the trend percentages and interpret them.

4.1 Meaning of Analysis of Financial Statements

The process of critical evaluation of the financial information contained in the financial statements in order to understand and make decisions regarding the operations of the firm is called 'Financial Statement Analysis'. It is basically a study of relationship among various financial facts and figures as given in a set of financial statements, and the interpretation thereof to gain an insight into the profitability and operational efficiency of the firm to assess its financial health and future prospects.

The term 'financial analysis' includes both 'analysis and interpretation'. The term analysis means simplification of financial data by methodical classification given in the financial statements. Interpretation means explaining the meaning and significance of the data. These two are complimentary to each other. Analysis is useless

without interpretation, and interpretation without analysis is difficult or even impossible.

Financial statement analysis is a judgemental process which aims to estimate current and past financial positions and the results of the operation of an enterprise, with primary objective of determining the best possible estimates and predictions about the future conditions. It essentially involves regrouping and analysis of information provided by financial statements to establish relationships and throw light on the points of strengths and weaknesses of a business enterprise, which can be useful in decision-making involving comparison with other firms (cross sectional analysis) and with firms' own performance, over a time period (time series analysis).

4.2 Significance of Analysis of Financial Statements

Financial analysis is the process of identifying the financial strengths and weaknesses of the firm by properly establishing relationships between the various items of the balance sheet and the statement of profit and loss. Financial analysis can be undertaken by management of the firm, or by parties outside the firm, viz., owners, trade creditors, lenders, investors, labour unions, analysts and others. The nature of analysis will differ depending on the purpose of the analyst. A technique frequently used by an analyst need not necessarily serve the purpose of other analysts because of the difference in the interests of the analysts. Financial analysis is useful and significant to different users in the following ways:

- (a) Finance manager: Financial analysis focusses on the facts and relationships related to managerial performance, corporate efficiency, financial strengths and weaknesses and creditworthiness of the company. A finance manager must be well-equipped with the different tools of analysis to make rational decisions for the firm. The tools for analysis help in studying accounting data so as to determine the continuity of the operating policies, investment value of the business, credit ratings and testing the efficiency of operations. The techniques are equally important in the area of financial control, enabling the finance manager to make constant reviews of the actual financial operations of the firm to analyse the causes of major deviations, which may help in corrective action wherever indicated.
- (b) *Top management:* The importance of financial analysis is not limited to the finance manager alone. It has a broad scope which includes top management in general and other functional managers. Management of the firm would be interested in every aspect of the financial analysis. It is their overall responsibility to see that the resources of the firm are

- used most efficiently and that the firm's financial condition is sound. Financial analysis helps the management in measuring the success of the company's operations, appraising the individual's performance and evaluating the system of internal control.
- (c) *Trade payables:* Trade payables, through an analysis of financial statements, appraises not only the ability of the company to meet its short-term obligations, but also judges the probability of its continued ability to meet all its financial obligations in future. Trade payables are particularly interested in the firm's ability to meet their claims over a very short period of time. Their analysis will, therefore, evaluate the firm's liquidity position.
- (d) Lenders: Suppliers of long-term debt are concerned with the firm's long-term solvency and survival. They analyse the firm's profitability over a period of time, its ability to generate cash, to be able to pay interest and repay the principal and the relationship between various sources of funds (capital structure relationships). Long-term lenders analyse the historical financial statements to assess its future solvency and profitability.
- (e) *Investors*: Investors, who have invested their money in the firm's shares, are interested about the firm's earnings. As such, they concentrate on the analysis of the firm's present and future profitability. They are also interested in the firm's capital structure to ascertain its influences on firm's earning and risk. They also evaluate the efficiency of the management and determine whether a change is needed or not. However, in some large companies, the shareholders' interest is limited to decide whether to buy, sell or hold the shares.
- (f) Labour unions: Labour unions analyse the financial statements to assess whether it can presently afford a wage increase and whether it can absorb a wage increase through increased productivity or by raising the prices.
- (g) Others: The economists, researchers, etc., analyse the financial statements to study the present business and economic conditions. The government agencies need it for price regulations, taxation and other similar purposes.

4.3 Objectives of Analysis of Financial Statements

Analysis of financial statements reveals important facts concerning managerial performance and the efficiency of the firm. Broadly speaking, the objectives of the analysis are to apprehend the information contained in financial statements with a view to know the weaknesses and strengths of the firm and to make a forecast about the future prospects of the firm thereby, enabling the analysts to take decisions regarding the operation of, and further investment in the firm. To be more specific, the analysis is undertaken to serve the following purposes (objectives):

- to assess the current profitability and operational efficiency of the firm as a whole as well as its different departments so as to judge the financial health of the firm.
- to ascertain the relative importance of different components of the financial position of the firm.
- to identify the reasons for change in the profitability/financial position of the firm.
- to judge the ability of the firm to repay its debt and assessing the short-term as well as the long-term liquidity position of the firm.

Through the analysis of financial statements of various firms, an economist can judge the extent of concentration of economic power and pitfalls in the financial policies pursued. The analysis also provides the basis for many governmental actions relating to licensing, controls, fixing of prices, ceiling on profits, dividend freeze, tax subsidy and other concessions to the corporate sector.

4.4 Tools of Analysis of Financial Statements

The most commonly used techniques of financial analysis are as follows:

- 1. Comparative Statements: These are the statements showing the profitability and financial position of a firm for different periods of time in a comparative form to give an idea about the position of two or more periods. It usually applies to the two important financial statements, namely, balance sheet and statement of profit and loss prepared in a comparative form. The financial data will be comparative only when same accounting principles are used in preparing these statements. If this is not the case, the deviation in the use of accounting principles should be mentioned as a footnote. Comparative figures indicate the trend and direction of financial position and operating results. This analysis is also known as 'horizontal analysis'.
- 2. Common Size Statements: These are the statements which indicate the relationship of different items of a financial statement with a common item by expressing each item as a percentage of that common item. The percentage thus calculated can be easily compared with the results of corresponding percentages of the previous year or of some other firms, as the numbers are brought to common base. Such statements also allow an analyst to compare the operating and financing characteristics of two companies of different sizes in the same industry. Thus, common size statements are useful, both, in intra-firm comparisons over different years and also in making inter-firm comparisons for the same year or for several years. This analysis is also known as 'Vertical analysis'.

- 3. *Trend Analysis:* It is a technique of studying the operational results and financial position over a series of years. Using the previous years' data of a business enterprise, trend analysis can be done to observe the percentage changes over time in the selected data. The trend percentage is the percentage relationship, in which each item of different years bear to the same item in the base year. Trend analysis is important because, with its long run view, it may point to basic changes in the nature of the business. By looking at a trend in a particular ratio, one may find whether the ratio is falling, rising or remaining relatively constant. From this observation, a problem is detected or the sign of good or poor management is detected.
- 4. *Ratio Analysis:* It describes the significant relationship which exists between various items of a balance sheet and a statement of profit and loss of a firm. As a technique of financial analysis, accounting ratios measure the comparative significance of the individual items of the income and position statements. It is possible to assess the profitability, solvency and efficiency of an enterprise through the technique of ratio analysis.
- 5. Cash Flow Analysis: It refers to the analysis of actual movement of cash into and out of an organisation. The flow of cash into the business is called as cash inflow or positive cash flow and the flow of cash out of the firm is called as cash outflow or a negative cash flow. The difference between the inflow and outflow of cash is the net cash flow. Cash flow statement is prepared to project the manner in which the cash has been received and has been utilised during an accounting year as it shows the sources of cash receipts and also the purposes for which payments are made. Thus, it summarises the causes for the changes in cash position of a business enterprise between dates of two balance sheets.

In this chapter, we shall have a brief idea about the first three techniques, viz., comparative statements, common size statements and trend analysis. The ratio analysis and cash flow analysis is covered in detail in Chapters 5 and 6 respectively.

Test your Understanding - I

Fill in the blanks with appropriate word(s):

- 1. Analysis simply means———data.
- 2. Interpretation means ———data.
- 3. Comparative analysis is also known as —————————————————————analysis.
- 4. Common size analysis is also known as ———— analysis.

4.5 Comparative Statements

As stated earlier, these statements refer to the statement of profit and loss and the balance sheet prepared by providing columns for the figures for both the current year as well as for the previous year and for the changes during the year, both in absolute and relative terms. As a result, it is possible to find out not only the balances of accounts as on different dates and summaries of different operational activities of different periods, but also the extent of their increase or decrease between these dates. The figures in the comparative statements can be used for identifying the direction of changes and also the trends in different indicators of performance of an organisation.

The following steps may be followed to prepare the comparative statements: *Step 1*: List out absolute figures in rupees relating to two points of time (as shown in columns 2 and 3 of Exhibit 4.1).

Step 2: Find out change in absolute figures by subtracting the first year (Col.2) from the second year (Col.3) and indicate the change as increase (+) or decrease (-) and put it in column 4.

Step 3: Preferably, also calculate the percentage change as follows and put it in column 5.

| Particulars | First Year | Second Year | Absolute Increase (+) or | Percentage Increase (+) |
|-------------|--------------|-------------|-----------------------------|----------------------------|
| | (\bigcirc) | | Decrease (-) | or Decrease (-) |
| 1 | 2 | 3 | 4 | 5 |
| | Rs. | Rs. | Rs. | %. |
| | ~O | | | |

Exhibit, 4.1

Illustration 1

Convert the following statement of profit and loss of BCR Co. Ltd. into the comparative statement of profit and loss of BCR Co. Ltd.:

| Particulars | Note | 2015-16 | 2016-17 |
|-----------------------------|------|-----------|-----------|
| | No. | (Rs.) | (Rs.) |
| (i) Revenue from operations | | 60,00,000 | 75,00,000 |
| (ii) Other incomes | | 1,50,000 | 1,20,000 |
| (iii) Expenses | | 44,00,000 | 50,60,000 |
| (iv) Income tax | | 35% | 40% |

Solution:

Comparative statement of profit and loss of BCR Co. Ltd. for the year ended March 31, 2016 and 2017:

| Particulars | 2015-16 | 2016-17 | Absolute | Percentage |
|----------------------------|-----------|-----------|-----------------|-----------------|
| | | | Increase (+) or | Increase (+) |
| | | | Decrease (-) | or Decrease (-) |
| | (Rs.) | (Rs.) | (Rs.) | % |
| I. Revenue from operations | 60,00,000 | 75,00,000 | 15,00,000 | 25.00 |
| II. Add: Other incomes | 1,50,000 | 1,20,000 | 30,000 | 20.00 |
| III. Total Revenue I+II | 61,50,000 | 76,20,000 | 14,70,000 | 23.90 |
| IV. Less: Expenses | 44,00,000 | 50,60,000 | 6,60,000 | 15.00 |
| Profit before tax | 17,50,000 | 25,60,000 | 8,10,000 | 46.29 |
| V. Less: Tax | 6,12,500 | 10,24,000 | 4,11,500 | 67.18 |
| Profit after tax | 11,37,500 | 15,36,000 | 3,98,500 | 35.03 |

Illustration 2

From the following statement of profit and loss of Madhu Co. Ltd., prepare comparative statement of profit and loss for the year ended March 31, 2016 and 2017:

| Particulars | Note | 2015-16 | 2016-17 |
|---------------------------|------|-----------|-----------|
| X | No. | (Rs.) | (Rs.) |
| | | | |
| Revenue from operations | | 16,00,000 | 20,00,000 |
| Employee benefit expenses | | 8,00,000 | 10,00,000 |
| Other expenses | | 2,00,000 | 1,00,000 |
| Tax rate 40 % | | | |

Solution:

Comparative statement of profit and loss of Madhu Co. Limited for the year ended March 31, 2016 and 2017:

| P | articulars | 2015-16 | 2016-17 | Absolute Increase (+) or Decrease (–) | Percentage Increase (+) or Decrease (–) |
|------|---------------------------|-----------|-----------|---|---|
| | | (Rs.) | (Rs.) | (Rs.) | % |
| I. | Revenue from operations | 16,00,000 | 20,00,000 | 4,00,000 | 25 |
| II. | Less: Expenses | | | | |
| a) | Employee benefit expenses | 8,00,000 | 10,00,000 | 2,00,000 | 25 |
| b) | Other expenses | 2,00,000 | 1,00,000 | (1,00,000) | (50) |
| | Profit before tax | 6,00,000 | 9,00,000 | 3,00,000 | 50 |
| III. | Less tax @ 40% | 2,40,000 | 3,60,000 | 1,20,000 | 50 |
| | Profit after tax | 3,60,000 | 5,40,000 | 1,80,000 | 50 |

Do it yourself

From the following particulars, prepare comparative statement of profit and loss of Narang Colours Ltd. for the year ended March 31, 2016 and 2017:

| Particulars | Note | 2016-17 | 2015-16 |
|---|------|-----------|-----------|
| | No. | | |
| 1. Revenue from operations | | 40,00,000 | 35,00,000 |
| 2. Other income | | 50,000 | 50,000 |
| 3. Cost of material consumed | | 15,00,000 | 18,00,000 |
| 4. Changes in inventories of finished goods | | 10,000 | (15,000) |
| 5. Employee benefit expenses | | 2,40,000 | 2,40,000 |
| 6. Depreciation and amortisation | | 25,000 | 22,500 |
| 7. Other expenses | | 2,66,000 | 3,02,000 |
| 8. Profit | | 20,09,000 | 14.27,300 |

Notes to Accounts

| Part | iculars | 2016-17 | 2015-16 |
|-------------|---------------------|----------|----------|
| 1. Other ex | xpenses | | |
| i) Powe | er and fuel | 36,000 | 40,000 |
| ii) Carr | iage outwards | 7,500 | 9,500 |
| iii) Licei | nse fees | 2,500 | 2,500 |
| iv) Selli | ng and distribution | 1,70,000 | 1,90,000 |
| v) Prov | ision of tax | 50,000 | 60,000 |
| | | 2,66,000 | 3,02,000 |

Illustration 3

The following are the Balance Sheets of J. Ltd. as at March 31, 2016 and 2017. Prepare a Comparative balance sheet.

| Particulars | Note | March 31, | March 31, |
|-----------------------------|------|-----------|-----------|
| | No. | 2017 | 2016 |
| | | (Rs.) | (Rs.) |
| I. Equity and Liabilities | | | |
| 1. Shareholders' Funds | | | |
| a) Share capital | | 20,00,000 | 15,00,000 |
| b) Reserve and surplus | | 3,00,000 | 4,00,000 |
| 2. Non-current Liabilities | | | |
| Long-term borrowings | | 9,00,000 | 6,00,000 |
| 3. Current liabilities | | | |
| Trade payables | | 3,00,000 | 2,00,000 |
| Total | | 35,00,000 | 27,00,000 |
| II. Assets | | | |
| 1. Non-current assets | | | |
| a) Fixed assets | P | | |
| - Tangible assets | | 20,00,000 | 15,00,000 |
| - Intangible assets | | 9,00,000 | 6,00,000 |
| 2. Current assets | | | |
| - Inventories | | 3,00,000 | 4,00,000 |
| - Cash and cash equivalents | | 3,00,000 | 2,00,000 |
| | | • | |
| Total | | 35,00,000 | 27,00,000 |

Solution:

Comparative Balance Sheet of J. Limited as at March 31, 2016 and March 2017:

(Rs. in Lakhs)

| Particulars | March 31, | March 31, | Absolute | Percentage |
|----------------------------|-----------|-----------|----------|------------|
| X | 2016 | 2017 | Change | Change |
| I. Equity and Liabilities | | | | |
| 1. Shareholders' Funds | | | | |
| a) Share capital | 15 | 20 | 05 | 33.33 |
| b) Reserve and surplus | 04 | 03 | (01) | (25) |
| 2. Non-current Liabilities | | | | |
| a) Long-term borrowings | 06 | 09 | 03 | 50 |
| 3. Current liabilities | | | | |
| a) Trade payables | 02 | 03 | 01 | 50 |
| Total | 27 | 35 | 08 | 29.63 |

| II. Assets | | | | |
|-----------------------------|----|----|------|-------|
| 1. Non-current assets | | | | |
| a) Fixed assets | | | | |
| - Tangible assets | 15 | 20 | 05 | 33.33 |
| - Intangible assets | 06 | 09 | 03 | 50 |
| b) Current assets | | | | |
| - Inventories | 04 | 03 | (01) | (25) |
| - Cash and cash equivalents | 02 | 03 | 01 | 50 |
| Total | 27 | 35 | 08 | 29.63 |

Illustration 4

From the following Balance Sheets of Amrit Limited as at March 31, 2016 and 2017, prepare a comparative balance sheet:

| Particulars | Note | March 31, | March 31, |
|---|------|-------------------------------------|-------------------------------------|
| | No. | 2017 | 2016 |
| | | (Rs.) | (Rs.) |
| I. Equity and Liabilities | | 1.60 | |
| 1. Shareholders' Funds | | | |
| a) Share capital | | 20,00,000 | 15,00,000 |
| b) Reserve and surplus | | 13,00,000 | 14,00,000 |
| 2. Non-current Liabilities | | | |
| Long-term borrowings | | 19,00,000 | 16,00,000 |
| 3. Current liabilities | | | |
| Trade payables | | 3,00,000 | 2,00,000 |
| Total | | EE 00 000 | 45 00 000 |
| Iotai | | 55,00,000 | 47,00,000 |
| II. Assets | | 55,00,000 | 47,00,000 |
| | | 55,00,000 | 47,00,000 |
| II. Assets | | 55,00,000 | 47,00,000 |
| II. Assets 1. Non-current assets | | 20,00,000 | 15,00,000 |
| II. Assets 1. Non-current assets a) Fixed assets | | | |
| II. Assets 1. Non-current assets a) Fixed assets - Tangible assets | | 20,00,000 | 15,00,000 |
| II. Assets 1. Non-current assets a) Fixed assets - Tangible assets - Intangible assets | | 20,00,000 | 15,00,000 |
| II. Assets 1. Non-current assets a) Fixed assets - Tangible assets - Intangible assets 2. Current assets | | 20,00,000 19,00,000 | 15,00,000 16,00,000 |
| II. Assets 1. Non-current assets a) Fixed assets - Tangible assets - Intangible assets 2. Current assets - Inventories | | 20,00,000 19,00,000 13,00,000 | 15,00,000 16,00,000 14,00,000 |
| II. Assets 1. Non-current assets a) Fixed assets - Tangible assets - Intangible assets 2. Current assets - Inventories | | 20,00,000 19,00,000 13,00,000 | 15,00,000 16,00,000 14,00,000 |

Solution:

Comparative Balance Sheet of Amrit Limited as at March 31, 2016 and March 31, 2017

(Rs. in Lakhs)

| Particulars | March 31, | March 31, | Absolute | Percentage |
|------------------------------|-----------|-----------|-----------------|-----------------|
| | 2016 | 2017 | Increase (+) or | Increase (+) |
| | | | Decrease (-) | or Decrease (-) |
| | Rs. | Rs. | Rs. | % |
| I. Equity and Liabilities | | | | |
| 1) Shareholders' funds | | | | |
| a) Share capital | 15 | 20 | 5 | 33.33 |
| b) Reserves and surplus | 14 | 13 | (1) | (7.14) |
| 2) Non-current liabilities | | | | |
| Long-term borrowings | 16 | 19 | 3 | 18.75 |
| 3) Current liabilities | | | | |
| Trade payables | 2 | 3 | 1 | 50 |
| Total | 47 | 55 | 8 | 17.02 |
| II. Assets | | | . 6 | |
| 1) Non-current assets | | | | |
| Fixed assets | | | | |
| a) Tangible assets | 15 | 20 | 5 | 33.33 |
| b) Intangible assets | 16 | 19 | 3 | 18.75 |
| 2) Current assets | (, ~ | | | |
| a) Inventories | 14 | 13 | (1) | (7.14) |
| b) Cash and Cash Equivalents | 2 | 3 | 1 | 50 |
| Total | 47 | 55 | 8 | 17.02 |
| | | | | |

Do it yourself

From the Balance Sheets for the year ended March 31, 2016 and 2017, prepare the comparative Balance Sheet of Omega Chemicals Ltd.:

| | Rs. ı | n Lakhs |
|------|-------|---------------------------------|
| Note | 2017 | 2016 |
| No. | (Rs.) | (Rs.) |
| | | |
| | | |
| | 5 | 10 |
| | 3 | 2 |
| | | |
| | 5 | 8 |
| | | |
| | 2 | 4 |
| | 15 | 24 |
| | | Note 2017 No. (Rs.) 5 3 5 2 |

| II. Assets | | |
|------------------------------|----|----|
| 1) Non-current assets | | |
| a) Fixed assets | | |
| - Tangible assets | 14 | 8 |
| - Intangible assets | 3 | 2 |
| 2) Current assets | | |
| a) Inventories | 5 | 4 |
| b) Cash and cash equivalents | 2 | 1 |
| Total | 24 | 15 |

4.6 Common Size Statement

Common Size Statement, also known as component percentage statement, is a financial tool for studying the key changes and trends in the financial position and operational result of a company. Here, each item in the statement is stated as a percentage of the aggregate, or revenue from operations of which that item is a part. For example, a common size balance sheet shows the percentage of each asset to the total assets, and that of each liability to the total liabilities. Similarly, in the common size statement of profit and loss, the items of expenditure are shown as a percentage of the revenue from operations. If such a statement is prepared for successive periods, it shows the changes of the respective percentages over a period of time.

Common size analysis is of immense use for comparing enterprises which differ substantially in size as it provides an insight into the structure of financial statements. Inter-firm comparison or comparison of the company's position with the related industry as a whole is possible with the help of common size statement analysis.

The following procedure may be adopted for preparing the common size statements.

- 1. List out absolute figures in rupees at two points of time, say year 1, and year 2 (Column 2 & 4 of Exhibit 4.2).
- 2. Choose a common base (as 100). For example, revenue from operations may be taken as base (100) in case of statement of profit and loss and total assets or total liabilities (100) in case of balance sheet.
- 3. For all items of Col. 2 and 3 work out the percentage of that total. Column 4 and 5 shows these percentages in Exhibit 4.2.

| Camman | Ci | Ctatamant |
|--------|------|-----------|
| Common | SIZE | Statement |

| Particulars | Year one | Year two | Percentage of year 1 | Percentage of year 2 |
|-------------|-------------|-------------|-------------------------|-------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | | | | |

Exhibit 4.2

Illustration 5

From the following information, prepare a Common size Income Statement for the year ended March 31, 2016 and March 31, 2017:

| Particulars | 2016-17 | 2015-16 |
|-------------------------|-----------|-----------|
| | (Rs.) | (Rs.) |
| Revenue from operations | 18,00,000 | 25,00,000 |
| Cost of good sold | 10,00,000 | 12,00,000 |
| Operating expenses | 80,000 | 1,20,000 |
| Non-operating expenses | 12,000 | 15,000 |
| Depreciation | 20,000 | 40,000 |
| Wages | 10,000 | 20,000 |

Solution:

Common Size Income Statement for the year ended March 31, 2016 and March 31, 2017

| Particulars | Absolute Amounts | | Percentage o | f Net Sales |
|-------------------------|------------------|-----------|--------------|-------------|
| | 2015-16 | 2016-17 | 2015-16 | 2016-17 |
| | Rs. | Rs. | (%) | (%) |
| Revenue from operations | 25,00,000 | 18,00,000 | 100 | 100 |
| (Less) Cost of goods | 12,00,000 | 10,00,000 | 48 | 55.56 |
| Sold* | | ,(()) | | |
| Gross Profit | 13,00,000 | 8,00,000 | 52 | 44.44 |
| (Less) Operating | 1,20,000 | 80,000 | 4.80 | 4.44 |
| Expenses** | | | | |
| Operating Income | 11,80,000 | 7,20,000 | 47.20 | 40 |
| (Less) Non-Operating | 15,000 | 12,000 | 0.60 | 0.67 |
| expenses | | | | |
| Profit | 11,65,000 | 7,08,000 | 46.60 | 39.33 |

^{*} Wages is the part of cost of goods sold;

Illustration 6

From the following information, prepare Common size statement of profit and loss for the year ended March 31, 2016 and March 31, 2017:

| Particulars | 2015-16 | 2016-17 |
|---------------------------|-----------|-----------|
| | (Rs.) | (Rs.) |
| Revenue from operations | 25,00,000 | 20,00,000 |
| Other income | 3,25,000 | 2,50,000 |
| Employee benefit expenses | 8,25,000 | 4,50,000 |

^{**} Depreciation is the part of operating expenses.

| Other expenses | 2,00,000 | 1,00,000 |
|---|----------|----------|
| Income tax (% of the profit before tax) | 30% | 20% |

Solution:

Common size statement of Profit and Loss for the year ended March 31, 2016 and March 31, 2017:

| Particulars | Absolute Amounts | | Percentage of Net | |
|---|------------------|-----------|-------------------|--------------|
| | | | Revenue froi | n operations |
| | 2015-16 | 2016-17 | 2015-16 | 2016-17 |
| | Rs. | Rs. | (%) | (%) |
| Revenue from Operations | 25,00,000 | 20,00,000 | 100 | 100 |
| (Add) Other income | 3,25,000 | 2,50,000 | 13 | 12.5 |
| Total revenue | 28,25,000 | 22,50,000 | 113 | 112.5 |
| (Less) expenses: a) Employee benefit expenses | 8,25,000 | 4,50,000 | 33 | 22.5 |
| b) Other expenses | 2,00,000 | 1,00,000 | 8 | 5 |
| Profit before tax | 18,00,000 | 17,00,000 | 72 | 85 |
| (Less) taxes | 5,40,000 | 3,40,000 | 21.6 | 17 |
| Profit after tax | 12,60,000 | 13,60,000 | 50.4 | 68 |

Illustration 7

Prepare common size Balance Sheet of XRI Ltd. from the following information:

| Particulars | Note No. | March 31, | March 31, |
|----------------------------|----------|-----------|-----------|
| | | 2016 | 2017 |
| I. Equity and Liabilities | , | | |
| Shareholders' Fund |) | | |
| a) Share capital | 1 | 15,00,000 | 12,00,000 |
| b) Reserves and surplus | | 5,00,000 | 5,00,000 |
| 2. Non-current liabilities | | | |
| Long-term borrowings | | 6,00,000 | 5,00,000 |
| 3. Current liabilities | | | |
| Trade Payable | | 15,50,000 | 10,50,000 |
| Total | | 41,50,000 | 32,50,000 |
| II. Assets | | | |
| 1. Non-current assets | | | |
| a) Fixed assets | | | |
| - Tangible asset | | | |
| Plant & machinery | | 14,00,000 | 8,00,000 |
| - Intangible assets | | | |
| Goodwill | | 16,00,000 | 12,00,000 |
| b) Non-current investments | | 10,00,000 | 10,00,000 |
| 2. Current assets | | | |
| Inventories | | 1,50,000 | 2,50,000 |
| Total | | 41,50,000 | 32,50,000 |

Solution:

Common size Balace Sheet of XRI Co. Ltd. as at March 31, 2016 and March 31, 2017:

| | Particulars | | Absolute A | mounts | Percentage of | Total Assets |
|-----|-------------|-------------------------|------------|------------|---------------|--------------|
| | | | | | | |
| | | | 31.03.2016 | 31.03.2017 | 31.03.2016 | 31.03.2017 |
| | | | (Rs.) | (Rs.) | (%) | (%) |
| I. | Eq | uity and Liabilities | | | | |
| | 1. | Shareholders fund | | | | |
| | | a) Share capital | 15,00,000 | 12,00,000 | 36.14 | 36.93 |
| | | b) Reserve and surplus | 5,00,000 | 5,00,000 | 12.05 | 15.38 |
| | 2. | Non-current liabilities | | | | |
| | | Long-term borrowings | 6,00,000 | 5,00,000 | 14.46 | 15.38 |
| | 3. | Current liabilities | | | | |
| | | Trade payables | 15,50,000 | 10,50,000 | 37.35 | 32.31 |
| | Tot | tal | 41,50,000 | 32,50,000 | 100 | 100 |
| II. | Ass | | | | | |
| | 1. | Non-current assets | | | | |
| | | a) Fixed assets | | | | |
| | | - Tangible asset | | | | |
| | | Plant & machinery | 14,00,000 | 8,00,000 | 33.73 | 24.62 |
| | | - Intangible assets | | | | |
| | | Goodwill | 16,00,000 | 12,00,000 | 38.55 | 36.92 |
| | | Non-current investments | 10,00,000 | 10,00,000 | 24.10 | 30.77 |
| | 2. | Current assets | | | | |
| | | Inventories | 1,50,000 | 2,50,000 | 3.62 | 7.69 |
| | Tot | tal | 41,50,000 | 32,50,000 | 100 | 100 |
| | | | | | | |

Do it yourself

Prepare common size balance sheet of Raj Co. Ltd. as at March 31, 2016 and March 31, 2017 from the given information:

| Particulars | 2017 | 2016 |
|----------------------------|-----------|-----------|
| I. Equity and Liabilities | | |
| Shareholders fund | | |
| a) Share capital | 20,00,000 | 15,00,000 |
| b) Reserve and surplus | 3,00,000 | 4,00,000 |
| 2. Non-current liabilities | | |
| Long-term borrowings | 9,00,000 | 6,00,000 |
| 3. Current liabilities | | |
| Trade payables | 3,00,000 | 2,00,000 |
| Total | 35,00,000 | 27,00,000 |

| \ssets | | |
|-----------------------------|--|--|
| Non-current assets | | |
| a) Fixed assets | | |
| - Tangible assets | 20,00,000 | 15,00,000 |
| - Intangible assets | 9,00,000 | 6,00,000 |
| b) Current assets | | |
| - Inventories | 3,00,000 | 4,00,000 |
| - Cash and cash equivalents | 3,00,000 | 2,00,000 |
| otal | 35,00,000 | 27,00,000 |
| | Non-current assets a) Fixed assets - Tangible assets - Intangible assets b) Current assets - Inventories - Cash and cash equivalents | Non-current assets a) Fixed assets - Tangible assets - Intangible assets b) Current assets - Inventories - Cash and cash equivalents |

Test your Understanding - II

Choose the right answer:

- 1. The financial statements of a business enterprise include:
 - (a) Balance sheet
 - (b) Statement of Profit and loss account
 - (c) Cash flow statement
 - (d) All the above
- 2. The most commonly used tools for financial analysis are:
 - (a) Horizontal analysis
 - (b) Vertical analysis
 - (c) Ratio analysis
 - (d) All the above
- 3. An Annual Report is issued by a company to its:
 - (a) Directors
 - (b) Auditors
 - (c) Shareholders
 - (d) Management
- 4. Balance Sheet provides information about financial position of the enterprise:
 - (a) At a point in time
 - (b) Over a period of time
 - (c) For a period of time
 - (d) None of the above
- 5. Comparative statements are also known as:
 - (a) Dynamic analysis
 - (b) Horizontal analysis
 - (c) Vertical analysis
 - (d) External analysis

Test your Understanding - III

State whether each of the following is True or False:

- (a) The financial statements of a business enterprise include cash flow statement.
- (b) Comparative statements are the form of horizontal analysis.
- (c) Common size statements and financial ratios are the two tools employed in vertical analysis.
- (d) Ratio analysis establishes relationship between two financial statements.
- (e) Ratio analysis is a tool for analysing the financial statements of any enterprise.
- (f) Financial analysis is used only by the creditors.
- (g) Statement of profit and loss account shows the operating performance of an enterprise for a period of time.
- (h) Financial analysis helps an analyst to arrive at a decision.
- (i) Cash Flow Statement is a tool of financial statement analysis.
- (j) In a Common size statement each item is expressed as a percentage of some common base.

4.7 Limitations of Financial Analysis

Though financial analysis is quite helpful in determining financial strengths and weaknesses of a firm, it is based on the information available in financial statements. As such, the financial analysis also suffers from various limitations of financial statements. Hence, the analyst must be conscious of the impact of price level changes, window dressing of financial statements, changes in accounting policies of a firm, accounting concepts and conventions, personal judgement, etc. Some other limitations of financial analysis are:

- 1. Financial analysis does not consider price level changes.
- 2. Financial analysis may be misleading without the knowledge of the changes in accounting procedure followed by a firm.
- 3. Financial analysis is just a study of reports of the company.
- 4. Monetary information alone is considered in financial analysis while non-monetary aspects are ignored.
- 5. The financial statements are prepared on the basis of accounting concept, as such, it does not reflect the current position.

Terms Introduced in the Chapter

- Financial Analysis
 Common Size Statements
 Trend Analysis
- 5. Ratio Analysis 6. Cash Flow Statement
- 7. Intra Firm Comparison 8. Inter Firm Comparison
 - Horizontal Analysis 10. Vertical Analysis

Summary

Major Parts of an Annual Report

An annual report contains basic financial statements, viz., Balance Sheet, Statement of Profit and Loss and Cash Flow Statement. It also carries management's discussion of corporate performance of the year under review for futuristic prospects.

Tools of Financial Analysis

Commonly used tools of financial analysis are: Comparative statements, Common size statement, trend analysis, ratio analysis, and cash flow analysis.

Comparative Statement

Comparative statement shows changes in all items of financial statements in absolute and percentage terms over a period of time for a firm or between two firms.

Common Size Statement

Common size statement expresses all items of a financial statement as a percentage of some common base such as revenue from operations for statement of profit and loss and total assets for balance sheet.

Questions for Practice

Short Answer Questions

- 1. List the techniques of Financial Statement Analysis.
- 2. Distinguish between Vertical and Horizontal Analysis of financial data.
- 3. State the meaning of Analysis and Interpretation.
- 4. State the importance of Financial Analysis?
- 5. What are Comparative Financial Statements?
- 6. What do you mean by Common Size Statements?

Long Answer Questions

- 1. Describe the different techniques of financial analysis and explain the limitations of financial analysis.
- 2. Explain the usefulness of trend percentages in interpretation of financial performance of a company.
- 3. What is the importance of comparative statements? Illustrate your answer with particular reference to comparative income statement.
- 4. What do you understand by analysis and interpretation of financial statements? Discuss its importance.
- 5. Explain how common size statements are prepared giving an example.

Numerical Questions

Following are the balance sheets of Alpha Ltd., as at March 31, 2016 and 2017. You are required to prepare Comparative Balance Sheet.

| Particulars | March 31, | March 31, |
|-------------------------------|-----------|------------|
| | 2016 | 2017 |
| | (Rs.) | (Rs.) |
| I. Equity and Liabilities | | |
| 1. Shareholders' Funds | | \bigcirc |
| (a) Share Capital | 2,00,000 | 4,00,000 |
| (b) Reserve & Surplus | 1,00,000 | 1,50,000 |
| 2. Noncurrent Liabilities | .0,7 | |
| (a) Long Term Borrowings | 2,00,000 | 3,00,000 |
| 3.Current Liabilities | | |
| (a) Short term borrowings | 50,000 | 70,000 |
| (b) Trade Payables | 30,000 | 60,000 |
| (c) Other Current Liabilities | 20,000 | 10,000 |
| (d) Short Terms Provisions | 20,000 | 20,000 |
| Total | 6,20,000 | 10,20,000 |
| II. Assets | | |
| 1. Non-Current Assets | | |
| (a) Fixed Assets | 2,00,000 | 5,00,000 |
| (b) Non-Current Investments | 1,00,000 | 1,25,000 |
| 2. Current Assets | | |
| (a) Current Investments | 60,000 | 80,000 |
| (b) Inventories | 1,35,000 | 1,55,000 |
| (c) Trade Receivables | 60,000 | 90,000 |

| Total | 6,20,000 | 10,20,000 |
|---------------------------------|----------|-----------|
| (e) Short term Loans & Advances | 40,000 | 60,000 |
| (d) Cash and Cash Equivalents | 25,000 | 10,000 |

2. Following are the Balance Sheets of Beta Ltd., as at March 31, 2016 and 2017.

| Particulars | March 31, | March 31, |
|---------------------------------|-----------|-----------|
| | 2016 | 2017 |
| | (Rs.) | (Rs.) |
| I. Equity and Liabilities | | |
| 1. Shareholders' Funds | | |
| (a) Share Capital | 4,00,000 | 3,00,000 |
| (b) Reserves and surplus | 1,50,000 | 1,00,000 |
| 2. Non-Current Liabilities | | . (|
| (a) Long term IDBI | 3,00,000 | 1,00,000 |
| 3. Current Liabilities | | |
| (a) Short term borrowings | 70,000 | 50,000 |
| (b) Trade payables | 60,000 | 30,000 |
| (c) Other current liabilities | 1,10,000 | 1,00,000 |
| (d) Short term provisions | 10,000 | 20,000 |
| Total | 1,10,000 | 7,00,000 |
| II. Assets | 2. | |
| 1. Non-Current Liabilities | | |
| (a) Fixed Assets | 4,00,000 | 2,20,000 |
| (b) Non-current Investments | 2,25,000 | 1,00,000 |
| X | | |
| 2. Current Assets | | |
| (a) Current Investments | 80,000 | 60,000 |
| (b) Inventories | 1,05,000 | 90,000 |
| (c) Trade Receivables | 90,000 | 60,000 |
| (d) Cash and Cash Equivalents | 1,00,000 | 85,000 |
| (e) Short term loans & Advances | 1,00,000 | 85,000 |
| Total | 11,00,000 | 7,00,000 |
| | | |

Prepare comparative Balance Sheet.

3. Prepare Comparative Statement of profit and loss from the following information.

| Particulars | 2015-16 | 2016-17 |
|------------------------------|----------|----------|
| | (Rs.) | (Rs.) |
| Freight Outward | 20,000 | 10,000 |
| Wages (office) | 10,000 | 5,000 |
| Manufacturing Expenses | 50,000 | 20,000 |
| Stock adjustment | (60,000) | 30,000 |
| Cash purchases | 80,000 | 60,000 |
| Credit purchases | 60,000 | 20,000 |
| Return inward | 8,000 | 4,000 |
| Gross profit | (30,000) | 90,000 |
| Carriage outward | 20,000 | 10,000 |
| Machinery | 3,00,000 | 2,00,000 |
| 10% depreciation on | 10,000 | 5,000 |
| machinery | | |
| Interest on short-term loans | 20,000 | 20,000 |
| 10% debentures | 20,000 | 10,000 |
| Profit on sale of furniture | 20,000 | 10,000 |
| Loss on sale of office car | 90,000 | 60,000 |
| Tax rate | 40% | 50% |

4. Prepare Comparative Statement of Profit and Loss from the following information:

| Particulars | 2015-16 | 2016-17 |
|------------------------|----------------------|-----------------------|
| ~ () | (Rs.) | (Rs.) |
| Manufacturing expenses | 35,000 | 80,000 |
| Opening stock | 30,000 | 60% of closing stock |
| Sales | 9,60,000 | 4,50,000 |
| Returns outward | 4,000 (out of credit | 6,000 (out of cash |
| | purchase) | purchase) |
| Closing stock | 150% of opening | 1,00,000 |
| | stock | |
| Credit purchases | 1,50,000 | 150% of cash purchase |

| Cash purchases | 80% of credit | 40,000 |
|------------------------------|---------------|-----------|
| | purchases | |
| Carriage outward | 10,000 | 30,000 |
| Building | 1,00,000 | 2,00,000 |
| Depreciation on building | 20% | 10% |
| Interest on bank overdraft | 5,000 | - |
| 10% debentures | 2,00,000 | 20,00,000 |
| Profit on sale of copyright | 10,000 | 20,000 |
| Loss on sale of personal car | 10,000 | 20,000 |
| Other operating expenses | 20,000 | 10,000 |
| Tax rate | 50% | 40% |

5. Prepare a Common size statement of profit and loss of Shefali Ltd. with the help of following information:

| Particulars | 2015-16 | 2016-17 |
|---------------------------------|---------------------|---------------------|
| | (Rs.) | (Rs.) |
| Revenue from operations | 6,00,000 | 8,00,00 |
| Indirect expense | 25% of gross profit | 25% of gross profit |
| Cost of revenue from operations | 4,28,000 | 7,28,000 |
| Other incomes | 10,000 | 12,000 |
| Income tax | 30% | 30% |

6. Prepare a Common Size balance sheet from the following balance sheet of Aditya Ltd., and Anjali Ltd.:

| Particulars | Aditya Ltd. | Anjali Ltd. |
|-------------------------------|-------------|-------------|
| | (Rs.) | (Rs.) |
| I. Equity and Liabilities | | |
| 1. <u>Shareholder's Funds</u> | | |
| a) Equity share capital | 6,00,000 | 8,00,000 |
| b) Reserves and surplus | 3,00,000 | 2,50,000 |
| 2. Current liabilities | 1,00,000 | 1,50,000 |
| Total | 10,00,000 | 12,00,000 |
| II. Assets | | |
| 1. Non current assets | | |
| a) Fixed assets | 4,00,000 | 7,00,000 |
| 2. <u>Current assets</u> | 6,00,000 | 5,00,000 |
| Total | 1,00,0000 | 12,00,000 |

Answers to Test your Understanding

Test your Understanding - I

1. Simplifying 2. explaining the impact of 3. horizontal

4. vertical 5. cash flow.

Test your Understanding - II

1 (d) 2 (d) 3 (c) 4 (a) 5 (b)

Test your Understanding - III

(a) True (b) True (c) True (d) True (e) True (f) False

(g) True (h) True (i) True (j) True

inancial statements aim at providing financial information about a business enterprise to meet the information needs of the decision-makers. Financial statements prepared by a business enterprise in the corporate sector are published and are available to the decision-makers. These statements provide financial data which require analysis, comparison and interpretation for taking decision by the external as well as internal users of accounting information. This act is termed as financial statement analysis. It is regarded as an integral and important part of accounting. As indicated in the previous chapter, the most commonly used techniques of financial statements analysis are comparative statements, common size statements, trend analysis, accounting ratios and cash flow analysis. The first three have been discussed in detail in the previous chapter. This chapter covers the technique of accounting ratios for analysing the information contained in financial statements for assessing the solvency, efficiency and profitability of the enterprises.

LEARNING OBJECTIVES

After studying this chapter, you will be able to:

- explain the meaning, objectives and limitations of accounting ratios;
- identify the various types of ratios commonly used:
- calculate various ratios to assess solvency, liquidity, efficiency and profitability of the firm;
- interpret the various ratios calculated for intra-firm and interfirm comparisons.

5.1 Meaning of Accounting Ratios

As stated earlier, accounting ratios are an important tool of financial statements analysis. A ratio is a mathematical number calculated as a reference to relationship of two or more numbers and can be expressed as a fraction, proportion, percentage and a number of times. When the number is calculated by referring to two accounting numbers derived from

Accounting Ratios 195

the financial statements, it is termed as accounting ratio. For example, if the gross profit of the business is Rs. 10,000 and the 'Revenue from Operations' are

Rs. 1,00,000, it can be said that the gross profit is
$$10\% \frac{10,000}{1,00,000} \times 100$$
 of the

'Revenue from Operations'. This ratio is termed as gross profit ratio. Similarly, inventory turnover ratio may be 6 which implies that inventory turns into 'Revenue from Operations' six times in a year.

It needs to be observed that accounting ratios exhibit relationship, if any, between accounting numbers extracted from financial statements. Ratios are essentially derived numbers and their efficacy depends a great deal upon the basic numbers from which they are calculated. Hence, if the financial statements contain some errors, the derived numbers in terms of ratio analysis would also present an erroneous scenario. Further, a ratio must be calculated using numbers which are meaningfully correlated. A ratio calculated by using two unrelated numbers would hardly serve any purpose. For example, the furniture of the business is Rs. 1,00,000 and Purchases are Rs. 3,00,000. The ratio of purchases to furniture is 3 (3,00,000/1,00,000) but it hardly has any relevance. The reason is that there is no relationship between these two aspects.

5.2 Objectives of Ratio Analysis

Ratio analysis is indispensable part of interpretation of results revealed by the financial statements. It provides users with crucial financial information and points out the areas which require investigation. Ratio analysis is a technique which involves regrouping of data by application of arithmetical relationships, though its interpretation is a complex matter. It requires a fine understanding of the way and the rules used for preparing financial statements. Once done effectively, it provides a lot of information which helps the analyst:

- 1. To know the areas of the business which need more attention;
- 2. To know about the potential areas which can be improved with the effort in the desired direction;
- 3. To provide a deeper analysis of the profitability, liquidity, solvency and efficiency levels in the business;
- 4. To provide information for making cross-sectional analysis by comparing the performance with the best industry standards; and
- 5. To provide information derived from financial statements useful for making projections and estimates for the future.

5.3 Advantages of Ratio Analysis

The ratio analysis if properly done improves the user's understanding of the efficiency with which the business is being conducted. The numerical

relationships throw light on many latent aspects of the business. If properly analysed, the ratios make us understand various problem areas as well as the bright spots of the business. The knowledge of problem areas help management take care of them in future. The knowledge of areas which are working better helps you improve the situation further. It must be emphasised that ratios are means to an end rather than the end in themselves. Their role is essentially indicative and that of a whistle blower. There are many advantages derived from ratio analysis. These are summarised as follows:

- 1. Helps to understand efficacy of decisions: The ratio analysis helps you to understand whether the business firm has taken the right kind of operating, investing and financing decisions. It indicates how far they have helped in improving the performance.
- 2. Simplify complex figures and establish relationships: Ratios help in simplifying the complex accounting figures and bring out their relationships. They help summarise the financial information effectively and assess the managerial efficiency, firm's credit worthiness, earning capacity, etc.
- 3. Helpful in comparative analysis: The ratios are not be calculated for one year only. When many year figures are kept side by side, they help a great deal in exploring the trends visible in the business. The knowledge of trend helps in making projections about the business which is a very useful feature.
- 4. *Identification of problem areas:* Ratios help business in identifying the problem areas as well as the bright areas of the business. Problem areas would need more attention and bright areas will need polishing to have still better results.
- 5. Enables SWOT analysis: Ratios help a great deal in explaining the changes occurring in the business. The information of change helps the management a great deal in understanding the current threats and opportunities and allows business to do its own SWOT (Strength-Weakness-Opportunity-Threat) analysis.
- 6. Various comparisons: Ratios help comparisons with certain bench marks to assess as to whether firm's performance is better or otherwise. For this purpose, the profitability, liquidity, solvency, etc., of a business, may be compared: (i) over a number of accounting periods with itself (Intra-firm Comparison/Time Series Analysis), (ii) with other business enterprises (Inter-firm Comparison/Cross-sectional Analysis) and (iii) with standards set for that firm/industry (comparison with standard (or industry expectations).

Accounting Ratios 197

5.4 Limitations of Ratio Analysis

Since the ratios are derived from the financial statements, any weakness in the original financial statements will also creep in the derived analysis in the form of ratio analysis. Thus, the limitations of financial statements also form the limitations of the ratio analysis. Hence, to interpret the ratios, the user should be aware of the rules followed in the preparation of financial statements and also their nature and limitations. The limitations of ratio analysis which arise primarily from the nature of financial statements are as under:

- I. Limitations of Accounting Data: Accounting data give an unwarranted impression of precision and finality. In fact, accounting data "reflect a combination of recorded facts, accounting conventions and personal judgements which affect them materially. For example, profit of the business is not a precise and final figure. It is merely an opinion of the accountant based on application of accounting policies. The soundness of the judgement necessarily depends on the competence and integrity of those who make them and on their adherence to Generally Accepted Accounting Principles and Conventions". Thus, the financial statements may not reveal the true state of affairs of the enterprises and so the ratios will also not give the true picture.
- 2. *Ignores Price-level Changes:* The financial accounting is based on stable money measurement principle. It implicitly assumes that price level changes are either non-existent or minimal. But the truth is otherwise. We are normally living in inflationary economies where the power of money declines constantly. A change in the price-level makes analysis of financial statement of different accounting years meaningless because accounting records ignore changes in value of money.
- 3. *Ignore Qualitative or Non-monetary Aspects:* Accounting provides information about quantitative (or monetary) aspects of business. Hence, the ratios also reflect only the monetary aspects, ignoring completely the non-monetary (qualitative) factors.
- 4. Variations in Accounting Practices: There are differing accounting policies for valuation of inventory, calculation of depreciation, treatment of intangibles Assets definition of certain financial variables etc., available for various aspects of business transactions. These variations leave a big question mark on the cross-sectional analysis. As there are variations in accounting practices followed by different business enterprises, a valid comparison of their financial statements is not possible.
- 5. *Forecasting:* Forecasting of future trends based only on historical analysis is not feasible. Proper forecasting requires consideration of non-financial factors as well.

Now let us talk about the limitations of the ratios. The various limitations are:

- 1. *Means and not the End:* Ratios are means to an end rather than the end by itself.
- 2. Lack of ability to resolve problems: Their role is essentially indicative and of whistle blowing and not providing a solution to the problem.
- 3. Lack of standardised definitions: There is a lack of standardised definitions of various concepts used in ratio analysis. For example, there is no standard definition of liquid liabilities. Normally, it includes all current liabilities, but sometimes it refers to current liabilities less bank overdraft.
- 4. Lack of universally accepted standard levels: There is no universal yardstick which specifies the level of ideal ratios. There is no standard list of the levels universally acceptable, and, in India, the industry averages are also not available.
- 5. Ratios based on unrelated figures: A ratio calculated for unrelated figures would essentially be a meaningless exercise. For example, creditors of Rs. 1,00,000 and furniture of Rs. 1,00,000 represent a ratio of 1:1. But it has no relevance to assess efficiency or solvency.

Hence, ratios should be used with due consciousness of their limitations while evaluating the performance of an organisation and planning the future strategies for its improvement.

Test your Understanding - I

1. State which of the following statements are True or False.

- (a) The only purpose of financial reporting is to keep the managers informed about the progress of operations.
- (b) Analysis of data provided in the financial statements is termed as financial analysis.
- (c) Long-term borrowings are concerned about the ability of a firm to discharge its obligations to pay interest and repay the principal amount.
- (d) A ratio is always expressed as a quotient of one number divided by another.
- (e) Ratios help in comparisons of a firm's results over a number of accounting periods as well as with other business enterprises.
- (f) A ratio reflects quantitative and qualitative aspects of results.

5.5 Types of Ratios

There is a two way classification of ratios: (1) traditional classification, and (2) functional classification. The traditional classification has been on the basis of financial statements to which the determinants of ratios belong. On this basis the ratios are classified as follows:

Accounting Ratios 199

1. *'Statement of Profit and Loss Ratios:* A ratio of two variables from the statement of profit and loss is known as statement of profit and loss ratio. For example, ratio of gross profit to revenue from operations is known as gross profit ratio. It is calculated using both figures from the statement of profit and loss.

- 2. Balance Sheet Ratios: In case both variables are from the balance sheet, it is classified as balance sheet ratios. For example, ratio of current assets to current liabilities known as current ratio. It is calculated using both figures from balance sheet.
- 3. Composite Ratios: If a ratio is computed with one variable from the statement of profit and loss and another variable from the balance sheet, it is called composite ratio. For example, ratio of credit revenue from operations to trade receivables (known as trade receivables turnover ratio) is calculated using one figure from the statement of profit and loss (credit revenue from operations) and another figure (trade receivables) from the balance sheet.

Although accounting ratios are calculated by taking data from financial statements but classification of ratios on the basis of financial statements is rarely used in practice. It must be recalled that basic purpose of accounting is to throw light on the financial performance (profitability) and financial position (its capacity to raise money and invest them wisely) as well as changes occurring in financial position (possible explanation of changes in the activity level). As such, the alternative classification (functional classification) based on the purpose for which a ratio is computed, is the most commonly used classification which is as follows:

- 1. Liquidity Ratios: To meet its commitments, business needs liquid funds. The ability of the business to pay the amount due to stakeholders as and when it is due is known as liquidity, and the ratios calculated to measure it are known as 'Liquidity Ratios'. These are essentially short-term in nature.
- 2. Solvency Ratios: Solvency of business is determined by its ability to meet its contractual obligations towards stakeholders, particularly towards external stakeholders, and the ratios calculated to measure solvency position are known as 'Solvency Ratios'. These are essentially long-term in nature.
- 3. Activity (or Turnover) Ratios: This refers to the ratios that are calculated for measuring the efficiency of operations of business based on effective utilisation of resources. Hence, these are also known as 'Efficiency Ratios'.
- 4. *Profitability Ratios:* It refers to the analysis of profits in relation to revenue from operations or funds (or assets) employed in the business and the ratios calculated to meet this objective are known as 'Profitability Ratios'.

5.6 Liquidity Ratios

Liquidity ratios are calculated to measure the short-term solvency of the business, i.e. the firm's ability to meet its current obligations. These are analysed by looking at the amounts of current assets and current liabilities in the balance sheet. The two ratios included in this category are current ratio and liquidity ratio.

5.6.1 Current Ratio

Current ratio is the proportion of current assets to current liabilities. It is expressed as follows:

Current Ratio = Current Assets : Current Liabilities or
$$\frac{\text{Current Assets}}{\text{Current Liabilities}}$$

Current assets include current investments, inventories, trade receivables (debtors and bills receivables), cash and cash equivalents, short-term loans and advances and other current assets such as prepaid expenses, advance tax and accrued income, etc.

Current liabilities include short-term borrowings, trade payables (creditors and bills payables), other current liabilities and short-term provisions.

Illustration 1

Calulate Current Ratio from the following information:

| Particulars | (Rs.) |
|--|----------|
| Inventories | 50,000 |
| Trade receivables | 50,000 |
| Advance tax | 4,000 |
| Cash and cash equivalents | 30,000 |
| Trade payables | 1,00,000 |
| Short-term borrowings (bank overdraft) | 4,000 |
| | |

Solution:

Current Ratio
$$= \frac{\text{Current Assets}}{\text{Current Liabilities}}$$
Current Assets
$$= \text{Inventories} + \text{Trade receivables} + \text{Advance tax} + \\ \text{Cash and cash equivalents}$$

$$= \text{Rs. } 50,000 + \text{Rs. } 50,000 + \text{Rs. } 4,000 + \text{Rs. } 30,000$$

$$= \text{Rs. } 1,34,000$$
Current Liabilities
$$= \text{Rs. } 1,00,000 + \text{Rs. } 4,000$$

$$= \text{Rs. } 1,00,000 + \text{Rs. } 4,000$$

$$= \text{Rs. } 1,04,000$$
Current Ratio
$$= \frac{\text{Rs. } 1,34,000}{\text{Rs. } 1,04,000} = 1.29:1$$

Accounting Ratios 201

Significance: It provides a measure of degree to which current assets cover current liabilities. The excess of current assets over current liabilities provides a measure of safety margin available against uncertainty in realisation of current assets and flow of funds. The ratio should be reasonable. It should neither be very high or very low. Both the situations have their inherent disadvantages. A very high current ratio implies heavy investment in current assets which is not a good sign as it reflects under utilisation or improper utilisation of resources. A low ratio endangers the business and puts it at risk of facing a situation where it will not be able to pay its short-term debt on time. If this problem persists, it may affect firm's credit worthiness adversely. Normally, it is safe to have this ratio within the range of 2:1.

5.6.2 Quick or Liquid Ratio

It is the ratio of quick (or liquid) asset to current liabilities. It is expressed as

The quick assets are defined as those assets which are quickly convertible into cash. While calculating quick assets we exclude the inventories at the end and other current assets such as prepaid expenses, advance tax, etc., from the current assets. Because of exclusion of non-liquid current assets it is considered better than current ratio as a measure of liquidity position of the business. It is calculated to serve as a supplementary check on liquidity position of the business and is therefore, also known as 'Acid-Test Ratio'.

Illustration 2

Calculate quick ratio from the information given in illustration 1.

Solution:

Quick Ratio
$$= \frac{\text{Quick Assets}}{\text{Current Liabilities}}$$
Quick Assets
$$= \text{Current assets} - (\text{Inventories} + \text{Advance tax})$$

$$= \text{Rs. } 1,34,000 - (\text{Rs. } 50,000 + \text{Rs. } 4,000)$$

$$= \text{Rs. } 80,000$$
Current Liabilities
$$= \text{Rs. } 1,04,000$$
Quick Ratio
$$= \frac{\text{Rs. } 80,000}{\text{Rs. } 1.04,000} = 0.77:1$$

Significance: The ratio provides a measure of the capacity of the business to meet its short-term obligations without any flaw. Normally, it is advocated to be

safe to have a ratio of 1:1 as unnecessarily low ratio will be very risky and a high ratio suggests unnecessarily deployment of resources in otherwise less profitable short-term investments.

Illustration 3

Calculate 'Liquid Ratio' from the following information:

Current liabilities = Rs. 50,000 Current assets = Rs. 80,000 Inventories = Rs. 20,000 Advance tax = Rs. 5,000 Prepaid expenses = Rs. 5,000

Solution

Liquid Ratio =
$$\frac{\text{Liquid Assets}}{\text{Current Liabilities}}$$
Liquid Assets =
$$\frac{\text{Current Liabilities}}{\text{Current assets} - (\text{Inventories} + \text{Prepaid expenses} + \text{Advance tax})}$$
=
$$\frac{\text{Rs. } 80,000 - (\text{Rs. } 20,000 + \text{Rs. } 5,000 + \text{Rs. } 5,000)}{\text{Rs. } 50,000}$$
Liquid Ratio =
$$\frac{\text{Rs. } 50,000}{\text{Rs. } 50,000} = 1:1$$

Illustration 4

X Ltd., has a current ratio of 3.5:1 and quick ratio of 2:1. If excess of current assets over quick assets represented by inventories is Rs. 24,000, calculate current assets and current liabilities.

Solution:

| Current Ratio | = | 3.5:1 |
|-------------------------|---|--|
| Quick Ratio | = | 2:1 |
| Let Current liabilities | = | X |
| Current assets | = | 3.5x |
| and Quick assets | = | 2x |
| Inventories | = | Current assets - Quick assets |
| 24,000 | = | 3.5x - 2x |
| 24,000 | = | 1.5x |
| X | = | Rs.16,000 |
| Current Liabilities | = | Rs.16,000 |
| Current Assets | = | 3.5x = 3.5 Rs. $16,000 = Rs. 56,000$. |

Accounting Ratios 203

Verification:

Current Ratio = Current assets : Current liabilities

= Rs. 56,000 : Rs. 16,000

= 3.5:1

Quick Ratio = Quick assets : Current liabilities

= Rs. 32,000 : Rs. 16,000

= 2:1

Illustration 5

Calculate the current ratio from the following information:

Total assets = Rs. 3,00,000 Non-current liabilities = Rs. 80,000 Shareholders' Funds = Rs. 2,00,000

Non-Current Assets:

Fixed assets = Rs. 1,60,000 Non-current Investments = Rs. 1,00,000

Solution:

Total assets = Non-current assets + Current assets

Rs. 3,00,000 = Rs. 2,60,000 + Current assets

Current assets = Rs. 3,00,000 - Rs. 2,60,000 = Rs. 40,000

Total assets = Equity and Liabilities

= Shareholders' Funds + Non-current liabilities +

Current liabilities

Rs. 3,00,000 = Rs. 2,00,000 + Rs. 80,000 + Current Liabilities

Current liabilities = Rs. 3,00,000 - Rs. 2,80,000

= Rs. 20,000

Current Ratio = Current Assets

Current Liabilities

 $= \frac{\text{Rs. } 40,000}{\text{Rs. } 20,000} = 2:1$

Do it Yourself

- 1. Current liabilities of a company are Rs. 5,60,000, current ratio is 2.5:1 and quick ratio is 2:1. Find the value of the Inventories.
- 2. Current ratio = 4.5:1, quick ratio = 3:1.Inventory is Rs. 36,000. Calculate the current assets and current liabilities.
- 3. Current assets of a company are Rs. 5,00,000. Current ratio is 2.5:1 and Liquid ratio is 1:1. Calculate the value of current liabilities, liquid assets and inventories.

Illustration 6

The current ratio is 2:1. State giving reasons which of the following transactions would improve, reduce and not change the current ratio:

- (a) Payment of current liability;
- (b) Purchased goods on credit;
- (c) Sale of a Computer (Book value: Rs. 4,000) for Rs. 3,000 only;
- (d) Sale of merchandise (goods) costing Rs. 10,000 for Rs. 11,000;
- (e) Payment of unclaimed dividend.

Solution:

The given current ratio is 2:1. Let us assume that current assets are Rs. 50,000 and current liabilities are Rs. 25,000; Thus, the current ratio is 2:1. Now we will analyse the effect of given transactions on current ratio.

- (a) Assume that Rs. 10,000 of creditors is paid by cheque. This will reduce the current assets to Rs. 40,000 and current liabilities to Rs. 15,000. The new ratio will be 2.67: 1 (Rs. 40,000/Rs.15,000). Hence, it has improved.
- (b) Assume that goods of Rs. 10,000 are purchased on credit. This will increase the current assets to Rs. 60,000 and current liabilities to Rs. 35,000. The new ratio will be 1.7:1 (Rs. 60,000/Rs. 35,000). Hence, it has *reduced*.
- (c) Due to sale of a computer (a fixed asset) the current assets will increase to Rs. 53,000 without any change in the current liabilities. The new ratio will be 2.12: 1 (Rs. 53,000/Rs. 25,000). Hence, it has improved.
- (d) This transaction will decrease the inventories by Rs. 10,000 and increase the cash by Rs. 11,000 thereby increasing the current assets by Rs. 1,000 without any change in the current liabilities. The new ratio will be 2.04: 1 (Rs. 51,000/Rs. 25,000). Hence, it has improved.
- (e) Assume that ₹5,000 is given by way of unclaimed dividend. It will reduce the current assets to ₹45,000 and unclaimed current liabilities by ₹5,000. The new ratio will be 2:25:1 (₹45,000/₹20,000). Hence, it has improved.

5.7 Solvency Ratios

The persons who have advanced money to the business on long-term basis are interested in safety of their periodic payment of interest as well as the

Accounting Ratios 205

repayment of principal amount at the end of the loan period. Solvency ratios are calculated to determine the ability of the business to service its debt in the long run. The following ratios are normally computed for evaluating solvency of the business.

- 1. Debt-Equity Ratio;
- 2. Debt to Capital Employed Ratio;
- 3. Proprietary Ratio;
- 4. Total Assets to Debt Ratio;
- 5. Interest Coverage Ratio.

5.7.1 Debt-Equity Ratio

Debt-Equity Ratio measures the relationship between long-term debt and equity. If debt component of the total long-term funds employed is small, outsiders feel more secure. From security point of view, capital structure with less debt and more equity is considered favourable as it reduces the chances of bankruptcy. Normally, it is considered to be safe if debt equity ratio is 2:1. However, it may vary from industry to industry. It is computed as follows:

| | - term Debts |
|------------------------------|---|
| Debt-Equity Ratio = Shareho | olders' Funds |
| where: | |
| Shareholders' Funds (Equity) | = Share capital + Reserves and Surplus + |
| | Money received against share warrants + |
| | Share application money pending allotment |
| Share Capital | = Equity share capital + Preference share capital |
| | or |
| Shareholders' Funds (Equity) | = Non-current sssets + Working capital - |
| | Non-current liabilities |
| Working Capital | = Current Assets – Current Liabilities |

Significance: This ratio measures the degree of indebtedness of an enterprise and gives an idea to the long-term lender regarding extent of security of the debt. As indicated earlier, a low debt equity ratio reflects more security. A high ratio, on the other hand, is considered risky as it may put the firm into difficulty in meeting its obligations to outsiders. However, from the perspective of the owners, greater use of debt (trading on equity) may help in ensuring higher returns for them if the rate of earnings on capital employed is higher than the rate of interest payable.

Illustration 7

From the following balance sheet of ABC Co. Ltd. as on March 31,2015. Calculate debt equity ratio:

ABC Co. Ltd. Balance Sheet as at 31 March, 2017

| I. Equity and Liabilities 1. Shareholders' funds | (Rs.) 12,00,000 |
|--|--------------------|
| 1. Shareholders' funds | |
| | |
| | |
| a) Share capital | |
| b) Reserves and surplus | 2,00,000 |
| c) Money received against share warrants | 1,00,000 |
| 2. Non-current Liabilities | |
| a) Long-term borrowings | 4,00,000 |
| b) Other long-term liabilities | 40,000 |
| c) Long-term provisions | 60,000 |
| 3. Current Liabilities | |
| a) Short-term borrowings | 2,00,000 |
| b) Trade payables | 1,00,000 |
| c) Other current liabilities | 50,000 |
| d) Short-term provisions | 1,50,000 |
| 2! | 5,00,000 |
| II. Assets | |
| 1. Non-Current Assets | |
| a) Fixed assets | 15,00,000 |
| b) Non-current investments | 2,00,000 |
| c) Long-term loans and advances | 1,00,000 |
| 2. Current Assets | |
| a) Current investments | 1,50,000 |
| b) Inventories | 1,50,000 |
| c) Trade receivables | 1,00,000 |
| d) Cash and cash equivalents | 2,50,000 |
| e) Short-term loans and advances | 50,000 |
| 25 | 5,00,000 |

Solution:

Debt-Equity Ratio $= \frac{\frac{\text{Debts}}{\text{Equity}}}{\text{Equity}}$ Debt $= \frac{\text{Long-term borrowings + Other long-term liabilities + Long-term provisions}}{\text{Long-term provisions}}$ = Rs. 4,00,000 + Rs. 40,000 + Rs. 60,000 = Rs. 5,00,000Equity $= \frac{\text{Share capital + Reserves and surplus + Money received against share warrants}}$

= Rs. 12,00,000 + Rs. 2,00,000 + Rs. 1,00,000

= Rs. 15,00,000

Alternatively,

= Non-current assets + Working capital - Non-current Equity

= Rs. 18,00,000 + Rs. 2,00,000 - Rs. 5,00,000liabilities

= Rs. 15.00.000

Working Capital = Current assets - Current liabilities

= Rs. 7,00,000 - Rs. 5,00,000

= Rs. 2,00,000

50,0000 = 0.33:1 Debt Equity Ratio 1,50,0000

Illustration 8

From the following balance sheet of a company, calculate Debt-Equity Ratio:

Balance Sheet

| | Pai | rticulars | Note | (Rs.) |
|-----|------------|---|------|-----------|
| | | | No. | |
| I. | Eq | uity and Liabilities | | |
| 1 | 1. | Shareholders' funds | | |
| 1 | | (a) Share capital | | 8,00,000 |
| 1 | | (b) Reserves and Surplus | 1 | 1,00,000 |
| 1 | 2. | Share application money pending allotment | | 2,00,000 |
| 1 | 3. | Non-Current Liabilities | | |
| | | Long-term borrowings | | 1,50,000 |
| 1 | | Current liabilities | | 1,50,000 |
| 1 | | | | 14,00,000 |
| II. | As | sets | | |
| 1 | 1. | Non-Current Assets | | |
| 1 | | a) Fixed assets | | |
| | | - Tangible assets | 2 | 11,00,000 |
| 1 | 2 . | Current Assets | | |
| 1 | | a) Inventories | | 1,00,000 |
| 1 | | b) Trade receivables | | 90,000 |
| 1 | | c) Cash and cash equivalents | | 1,10,000 |
| | | | | 14,00,000 |

| Notes to Accounts | |
|--------------------------|----------|
| | (Rs.) |
| 1. Share Capital | |
| Equity Share Capital | 6,00,000 |
| Preference Share Capital | 2,00,000 |
| _ | 8,00,000 |

Fixed Assets

| | (Rs.) |
|---------------------|-----------|
| 2. Tangible Assets: | |
| Plant and Machinery | 5,00,000 |
| Land and Building | 4,00,000 |
| Motor Car | 1,50,000 |
| Furniture | 50,000 |
| | 11,00,000 |
| | |

Solution:

Debt-Equity Ratio = $\frac{\text{Long-term Debts}}{\text{Equity (Shareholders' Funds)}}$ Long-term Debts = $\frac{\text{Long-term Borrowings}}{\text{Rs. } 1,50,000}$ Equity = $\frac{\text{Share capital + Reserves and surplus + Share application money pending allotment}}{\text{Share Rs. } 8,00,000 + \text{Rs. } 1,00,000 + \text{Rs. } 2,00,000 = \text{Rs. } 11,00,000}$ Debt Equity Ratio = $\frac{1,50,000}{11,00,000} = 0.136:1$

5.7.2 Debt to Capital Employed Ratio

The Debt to capital employed ratio refers to the ratio of long-term debt to the total of external and internal funds (capital employed or net assets). It is computed as follows:

Debt to Capital Employed Ratio = Long-term Debt/Capital Employed (or Net Assets)

Capital employed is equal to the long-term debt + shareholders' funds. Alternatively, it may be taken as net assets which are equal to the total assets – current liabilities taking the data of Illustration 7, capital employed shall work out to Rs. 5,00,000 + Rs. 15,00,000 = Rs. 20,00,000. Similarly, Net Assets as Rs. 25,00,000 – Rs. 5,00,000 = Rs. 20,00,000 and the Debt to capital employed ratio as Rs. 5,00,000/Rs. 20,00,000 = 0.25:1.

Significance: Like debt-equity ratio, it shows proportion of long-term debts in capital employed. Low ratio provides security to lenders and high ratio helps management in trading on equity. In the above case, the debt to Capital Employed ratio is less than half which indicates reasonable funding by debt and adequate security of debt.

It may be noted that Debt to Capital Employed Ratio can also be computed in relation to total assets. In that case, it usually refers to the ratio of total

debts (long-term debts + current liabilities) to total assets, i.e., total of noncurrent and current assets (or shareholders', funds + long-term debts + current liabilities), and is expressed as

Debt to Capital Employed Ratio =
$$\frac{\text{Total Debts}}{\text{Total Assets}}$$

5.7.3 Proprietary Ratio

Proprietary ratio expresses relationship of proprietor's (shareholders) funds to net assets and is calculated as follows:

Proprietary Ratio = Shareholders', Funds/Capital employed (or net assets)
Based on data of Illustration 7, it shall be worked out as follows:

```
Rs. 15,00,000/\text{Rs}. 20,00,000 = 0.75 : 1
```

Significance: Higher proportion of shareholders funds in financing the assets is a positive feature as it provides security to creditors. This ratio can also be computed in relation to total assets instead of net assets (capital employed). It may be noted that the total of debt to capital employed ratio and proprietory ratio is equal to 1. Take these ratios worked out on the basis of data of Illustration 7, the debt to Capital Employed ratio is 0.25:1 and the Proprietory Ratio 0.75:1 the total is 0.25+0.75=1. In terms of percentage it can be stated that the 25% of the capital employed is funded by debts and 75% by owners' funds.

5.7.4 Total Assets to Debt Ratio

This ratio measures the extent of the coverage of long-term debts by assets. It is calculated as

Total assets to Debt Ratio = Total assets/Long-term debts

Taking the data of Illustration 8, this ratio will be worked out as follows:

The higher ratio indicates that assets have been mainly financed by owners funds and the long-term loans is adequately covered by assets.

It is better to take the net assets (capital employed) instead of total assets for computing this ratio also. It is observed that in that case, the ratio is the reciprocal of the debt to capital employed ratio.

Significance: This ratio primarily indicates the rate of external funds in financing the assets and the extent of coverage of their debts are covered by assets.

Illustration 9

From the following information, calculate Debt Equity Ratio, Total Assets to Debt Ratio, Proprietory Ratio, and Debt to Capital Employed Ratio:

Balance Sheet as at March 31, 2017

| | Ра | rticulars | Note | (Rs.) |
|-----|----|----------------------------|------|----------|
| ļ_ | _ | | No. | |
| I. | | uity and Liabilities: | | |
| 1 | 1. | Shareholders' funds | | |
| 1 | | a) Share capital | | 4,00,000 |
| 1 | | b) Reserves and surplus | | 1,00,000 |
| 1 | 2. | Non-current Liabilities | | |
| | | Long-term borrowings | | 1,50,000 |
| | 3. | Current Liabilities | | 50,000 |
| | | | | 7,00,000 |
| II. | As | sets | | |
| 1 | 1. | Non-current Assets | | |
| 1 | | a) Fixed assets | | 4,00,000 |
| 1 | | b) Non-current investments | | 1,00,000 |
| | 2. | Current Assets | | 2,00,000 |
| | | | | 7,00,000 |

Solution:

i) Debt-Equity Ratio =
$$\frac{Debts}{Equity}$$
Debt = Long-term borrowings = Rs. 1,50,000
Equity = Share capital + Reserves and surplus
= Rs. 4,00,000 + Rs. 1,00,000 = Rs. 5,00,000

Debt-Equity Ratio =
$$\frac{Rs.1,50,000}{Rs.5,00,000} = 0.3:1$$
ii) Total Assets to Debt Ratio =
$$\frac{Total \ assets}{Long-term \ debts}$$
Total Assets = Fixed assets + Non-current investments + Current assets
= Rs. 4,00,000 + Rs. 1,00,000 + Rs. 2,00,000 = Rs. 7,00,000
Long-term Debt = Rs. 1,50,000

Total Asset to Debt Ratio =
$$\frac{Rs.7,00,000}{Rs.1,50,000} = 4.67:1$$

iii) Proprietary Ratio = or
$$\frac{\text{Shareholders' Funds}}{\text{Total Assets}}$$

= $\frac{\text{Rs.} 5,00,000}{\text{Rs.} 7,00,000} = 0.71:1$

iv) Debt to Capital Employed Ratio = $\frac{\text{Long-term debts}}{\text{Capital Employed}}$

Capital Employed = Shareholders' Funds + Long-term borrowings = Rs. 5,00,000 + Rs. 1,50,000 = Rs. 6,50,000

Debt to Capital Employed Ratio = $\frac{\text{Long-term debts}}{\text{Capital Employed}}$

$$= \frac{\text{Rs.} 1,50,000}{\text{Rs.} 6,50,000} = 0.23:1$$

Illustration 10

The debt equity ratio of X Ltd. is 0.5:1. Which of the following would increase/decrease or not change the debt equity ratio?

- (i) Further issue of equity shares
- (ii) Cash received from debtors
- (iii) Sale of goods on cash basis
- (iv) Redemption of debentures
- (v) Purchase of goods on credit.

Solution:

The change in the ratio depends upon the original ratio. Let us assume that external funds are Rs. 5,00,000 and internal funds are Rs. 10,00,000. Now we will analyse the effect of given transactions on debt equity ratio.

- (i) Assume that Rs. 1,00,000 worth of equity shares are issued. This will increase the internal funds to Rs. 11,00,000. The new ratio will be 0.45: 1 (5,00,000/11,00,000). Thus, it is clear that further issue of equity shares decreases the debt-equity ratio.
- (ii) Cash received from debtors will leave the internal and external funds unchanged as this will only affect the composition of current assets. Hence, the debt-equity ratio will remain unchanged.

- This will also leave the ratio *unchanged* as sale of goods on cash basis neither affect Debt nor equity.
- Assume that Rs. 1,00,000 debentures are redeemed. This will decrease the long-term debt to Rs. 4,00,000. The new ratio will be 0.4:1 (4,00,000/10,00,000). Redemption of debentures will decrease the debit-equity ratio.
- This will also leave the ratio *unchanged* as purchase of goods on credit neither affect Debt nor equity.

5.7.5 **Interest Coverage Ratio**

It is a ratio which deals with the servicing of interest on loan. It is a measure of security of interest payable on long-term debts. It expresses the relationship between profits available for payment of interest and the amount of interest payable. It is calculated as follows:

```
Interest Coverage Ratio
                           = Net Profit before Interest and Tax
                                Interest on long-term debts
```

Significance: It reveals the number of times interest on long-term debts is covered by the profits available for interest. A higher ratio ensures safety of interest on debts.

Illustration 11

From the following details, calculate interest coverage ratio:

Net Profit after tax Rs. 60,000; 15% Long-term debt 10,00,000; and Tax rate 40%.

Solution:

Net Profit after Tax = Rs. 60,000Tax Rate 40%

Net Profit before tax = Net profit after tax 100/(100 - Tax rate)

Rs. 60,000 100/(100 - 40)

= Rs. 1,00,000

Interest on Long-term Debt = 15% of Rs. 10,00,000 = Rs. 1,50,000

Net profit before interest and tax = Net profit before tax + Interest

= Rs. 1,00,000 + Rs. 1,50,000 = Rs. 2,50,000

= Net Profit before Interest and Interest Coverage Ratio

Tax/Interest on long-term debt = Rs. 2,50,000/Rs. 1,50,000

= 1.67 times.

5.8 Activity (or Turnover) Ratio

These ratios indicate the speed at which, activities of the business are being performed. The activity ratios express the number of times assets employed, or, for that matter, any constituent of assets, is turned into sales during an accounting period. Higher turnover ratio means better utilisation of assets and signifies improved efficiency and profitability, and as such are known as efficiency ratios. The important activity ratios calculated under this category are

- 1. Inventory Turnover;
- 2. Trade receivable Turnover;
- 3. Trade payable Turnover;
- 4. Investment (Net assets) Turnover
- 5. Fixed assets Turnover: and
- 6. Working capital Turnover.

5.8.1 Inventory Turnover Ratio

It determines the number of times inventory is converted into revenue from operations during the accounting period under consideration. It expresses the relationship between the cost of revenue from operations and average inventory. The formula for its calculation is as follows:

Inventory Turnover Ratio = Cost of Revenue from Operations / Average Inventory

Where average inventory refers to arithmetic average of opening and closing inventory, and the cost of revenue from operations means revenue from operations less gross profit.

Significance: It studies the frequency of conversion of inventory of finished goods into revenue from operations. It is also a measure of liquidity. It determines how many times inventory is purchased or replaced during a year. Low turnover of inventory may be due to bad buying, obsolete inventory, etc., and is a danger signal. High turnover is good but it must be carefully interpreted as it may be due to buying in small lots or selling quickly at low margin to realise cash. Thus, it throws light on utilisation of inventory of goods.

| | | Test your Understanding – II |
|-------|---|---|
| (i) | The fol | lowing groups of ratios are primarily measure risk: |
| | A. liquidity, activity, and profitability | |
| | B. | liquidity, activity, and inventory |
| | C. | liquidity, activity, and debt |
| | D. | liquidity, debt and profitability |
| (ii) | The | ratios are primarily measures of return: |
| | A. | liquidity |
| | B. | activity |
| | C. | debt |
| | D. | profitability |
| (iii) | The term ol | of business firm is measured by its ability to satisfy its short-bligations as they become due: |
| | A. | activity |
| | B. | liquidity |
| | C. | debt |
| | D. | profitability |
| (iv) | conver | ratios are a measure of the speed with which various accounts are ted into revenue from operations or cash: |
| | A. | activity |
| | B. | liquidity |
| | C. | debt |
| | D. | profitability |
| (v) | The tw | o basic measures of liquidity are: |
| | A. | inventory turnover and current ratio |
| | B. | current ratio and liquid ratio |
| | C. | gross profit margin and operating ratio |
| | D. | current ratio and average collection period |
| (vi) | Theleast li | is a measure of liquidity which excludes, generally the quid asset: |
| | A. | current ratio, trade receivable |
| | B. | liquid ratio, trade receivable |
| | C. | current ratio, inventory |
| | D. | liquid ratio, inventory |

Illustration 12

From the following information, calculate inventory turnover ratio:

| | | Rs. |
|----------------------------|---|--------|
| Inventory in the beginning | = | 18,000 |
| Inventory at the end | = | 22,000 |
| Net purchases | = | 46,000 |
| Wages | = | 14,000 |
| Revenue from operations | = | 80,000 |
| Carriage inwards | = | 4,000 |

Solution:

| | | Cost of Revenue from Operations | |
|---------------------------------|--------------------------|--|--|
| Inventory Turnover Ratio | = | Average Inventory | |
| Cost of Revenue from Operations | | Inventory in the beginning + Net Purchases + Wages + Carriage inwards - Inventory at the end Rs. 18,000 + Rs. 46,000 + Rs. 14,000 + Rs. 4,000 - Rs. 22,000 Rs. 60,000 | |
| Average Inventory = | Inventory in th | e beginning + Inventory at the end 2 | |
| | Rs. 18, 000 + Rs | s. 22,000 = Rs. 20,000 | |
| :. Inventory Turnover Ratio = | Rs. 60,000 Rs. 20,000 | = 3 Times | |

Illustration 13

From the following information, calculate inventory turnover ratio:

| | | Rs. |
|-------------------------|---|----------|
| Revenue from operations | = | 4,00,000 |
| Average Inventory | = | 55,000 |
| Gross Profit Ratio | = | 10% |

Solution:

Revenue from operations = Rs. 4,00,000 Gross Profit = 10% of Rs. 4,00,000 = Rs. 40,000 Cost of Revenue from operations = Revenue from operations - Gross Profit = Rs. 4,00,000 - Rs. 40,000 = Rs. 3,60,000

Inventory Turnover Ratio =
$$\frac{\text{Cost of Revenue from Operations}}{\text{Average Inventory}}$$
$$= \frac{\text{Rs. } 3,60,000}{\text{Rs. } 55,000} = 6.55 \text{ times}$$

Illustration 14

A trader carries an average inventory of Rs. 40,000. His inventory turnover ratio is 8 times. If he sells goods at a profit of 20% on Revenue from operations, find out the gross profit.

Solution:

Inventory Turnover Ratio =
$$\frac{\text{Cost of Revenue from Operations}}{\text{Average Inventory}}$$

$$8 = \frac{\text{Cost of Revenue from Operations}}{\text{Rs. } 40,000}$$

$$\therefore \text{ Cost of Revenue from operations} = 8 \quad \text{Rs. } 40,000$$

$$= \quad \text{Rs. } 3,20,000$$

$$= \quad \text{Rs. } 3,20,000$$
Revenue from operations = $\frac{100}{80}$

$$= \quad \text{Rs. } 3,20,000 \quad \frac{100}{80} = \quad \text{Rs. } 4,00,000$$
Gross Profit = Revenue from operations - Cost of Revenue from operations = $\frac{100}{80}$ = $\frac{100}{80}$

Do it Yourself 1. Calculate the amount of gross profit: Average inventory Rs. 80.000 Inventory turnover ratio 6 times Selling price 25% above cost 2. Calculate Inventory Turnover Ratio: Annual Revenue from operations Rs. 2,00,000 Gross Profit 20% on cost of Revenue from operations Inventory in the beginning = Rs. 38,500 Inventory at the end Rs. 41,500

5.8.2 Trade Receivables Turnover Ratio

It expresses the relationship between credit revenue from operations and trade receivable. It is calculated as follows:

Trade Receivable Turnover ratio = Net Credit Revenue from Operations/Average
Trade Receivable

Where Average Trade Receivable = (Opening Debtors and Bills Receivable + Closing Debtors and Bills Receivable)/2

It needs to be noted that debtors should be taken before making any provision for doubtful debts.

Significance: The liquidity position of the firm depends upon the speed with which trade receivables are realised. This ratio indicates the number of times the receivables are turned over and converted into cash in an accounting period. Higher turnover means speedy collection from trade receivable. This ratio also helps in working out the average collection period. The ratio is calculated by dividing the days or months in a year by trade receivables turnover ratio.

Illustration 15

Calculate the Trade receivables turnover ratio from the following information:

Rs.

Total Revenue from operations 4,00,000
Cash Revenue from operations 20% of Total Revenue from operations

Trade receivables as at 1.4.2016 40,000
Trade receivables as at 31.3.2017 1,20,000

Solution:

Trade Receivables Turnover Ratio = $\frac{\text{Net Credit Revenue from Operations}}{\text{Average Trade Receivables}}$ Credit Revenue from operations = $\frac{\text{Total revenue from operations} - \text{Cash revenue from operations}}{20\% \text{ of Rs. } 4,00,000}$ Credit Revenue from operations = $\frac{20}{100} = \text{Rs. } 80,000$ Credit Revenue from operations = $\frac{\text{Rs. } 4,00,000 - \text{Rs. } 80,000 = \text{Rs. } 3,20,000}{\text{Rs. } 4,00,000 - \text{Rs. } 80,000 = \text{Rs. } 3,20,000}$

Average Trade Receivables =
$$\frac{\text{Trade Receivables} + \text{Closing}}{2}$$

$$= \frac{\text{Rs. } 40,000 + \text{Rs. } 1,20,000}{2} = \text{Rs. } 80,000$$

$$\text{Trade Receivables Turnover Rations} = \frac{\text{Net Credit Revenue Form Operations}}{\text{Average Inventoary}}$$

$$\text{Trade Receivables Turnover Ratio} = \frac{\text{Rs. } 3,20,000}{\text{Rs. } 80,000} = 4 \text{ times.}$$

5.8.3 Trade Payable Turnover Ratio

Trade payables turnover ratio indicates the pattern of payment of trade payable. As trade payable arise on account of credit purchases, it expresses relationship between credit purchases and trade payable. It is calculated as follows:

| Trade Payables Turnover ratio | = ' | Net Credit purchases/ |
|-------------------------------|-----|--|
| | | Average trade payable |
| Where Average Trade Payable | = | (Opening Creditors and Bills Payable + |
| | | Closing Creditors and Bills Payable)/2 |
| | | No. of days/month in a year |
| Average Payment Period | = | Trade Payables Turnover Ratio |

Significance: It reveals average payment period. Lower ratio means credit allowed by the supplier is for a long period or it may reflect delayed payment to suppliers which is not a very good policy as it may affect the reputation of the business. The average period of payment can be worked out by days/months in a year by the Trade Payable Turnover Ratio.

Illustration 16

Calculate the Trade payables turnover ratio from the following figures:

| | | RS. |
|---------------------------------|---|-----------|
| Credit purchases during 2016-17 | = | 12,00,000 |
| Creditors on 1.4.2016 | = | 3,00,000 |
| Bills Payables on 1.4.2016 | = | 1,00,000 |
| Creditors on 31.3.2017 | = | 1,30,000 |
| Bills Payables on 31.3.2017 | = | 70,000 |

Solution:

Trade Payables Turnover Ratio =
$$\frac{\text{Net Credit Purchases}}{\text{Average Trade Payables}}$$

$$\text{Creditors in the beginning + Bills payables in the beginning + Creditors at the end + Bills payables} \\ \text{Average Trade Payables} \quad = \frac{\text{at the end}}{2}$$

$$= \frac{\text{Rs. } 3,00,000 + \text{Rs. } 1,00,000 + \text{Rs. } 1,30,000 + \text{Rs. } 70,000}{2}$$
$$= \text{Rs. } 3,00,000$$

∴ Trade Payables Turnover Ratio =
$$\frac{\text{Rs.}12,00,000}{\text{Rs.}3,00,000}$$
 = 4 times

Illustration 17

From the following information, calculate -

- (i) Trade receivables turnover ratio
- (ii) Average collection period
- (iii) Trade rayable turnover ratio
- (iv) Average payment period

Given:

| | 113. |
|-------------------------|----------|
| Revenue from Operations | 8,75,000 |
| Creditors | 90,000 |
| Bills receivable | 48,000 |
| Bills payable | 52,000 |
| Purchases | 4,20,000 |
| Trade debtors | 59,000 |

Solution:

(i) Trade Receivables Turnover Ratio =
$$\frac{\text{Net Credit Revenue from operation}}{\text{Average Trade Receivable}}$$
$$= \frac{\text{Rs. 8,75,000}}{(\text{Rs. 59,000 + Rs. 48,000})^*}$$
$$= 8.18 \text{ times}$$

^{*} This figure has not been divided by 2, in order to calculate average Trade Receivables as the figures of debtors and bills receivables in the beginning of the year are not available. So when only year-end figures are available use the same as it is.

| () | A G . H | | 365 |
|-------|------------------------------|----------|--|
| (ii) | Average Collection Period | = | Trade Receivables Turnover Ratio |
| | | = | 365 8.18 45 days |
| | | | Purchases * |
| (iii) | Trade Payable Turnover Ratio | = | Average Trade Payables |
| | | = = | Purchases Creditors + Bills payable 4,20,000 90,000 + 52,000 4,20,000 1,42,000 |
| | | = | 2.96 times |
| (iv) | Average Payment Period | <u>-</u> | 365 Trade Payables Turnover Ratio |
| | 0,00 | = | 365 2.96 123 days |
| | | | |

^{*}Since no information regarding credit purchase is given, hence it will be related as net purchases.

5.8.4 Net Assets or Capital Employed Turnover Ratio

It reflects relationship between revenue from operations and net assets (capital employed) in the business. Higher turnover means better activity and profitability. It is calculated as follows:

Net Assets or Capital Employed Turnover ratio
$$=$$
 $\frac{\text{Revenue from Operation}}{\text{Capital Employed}}$

Capital employed turnover ratio which studies turnover of capital employed (or Net Assets) is analysed further by following two turnover ratios :

(a) Fixed Assets Turnover Ratio: It is computed as follows:

Fixed asset turnover Ratio
$$= \frac{\text{Net Revenue from Operation}}{\text{Net Fixed Assets}}$$

(b) Working Capital Turnover Ratio: It is calculated as follows:

Working Capital Turnover Ratio
$$= \frac{\text{Net Revenue from Operation}}{\text{Working Capital}}$$

Significance: High turnover of capital employed, working capital and fixed assets is a good sign and implies efficient utilisation of resources. Utilisation of capital employed or, for that matter, any of its components is revealed by the turnover ratios. Higher turnover reflects efficient utilisation resulting in higher liquidity and profitability in the business.

Illustration 18

From the following information, calculate (i) Net assets turnover, (ii) Fixed assets turnover, and (iii) Working capital turnover ratios :

| | Amount (Rs.) | | Amount (Rs.) |
|------------------------------------|-----------------|---------------------|-----------------|
| Preference shares capital | 4,00,000 | Plant and Machinery | 8,00,000 |
| Equity share capital | 6,00,000 | Land and Building | 5,00,000 |
| General reserve | 1,00,000 | Motor Car | 2,00,000 |
| Balance in Statement of Profit and | 3,00,000 | Furniture | 1,00,000 |
| Loss | | | |
| 15% debentures | 2,00,000 | Inventory | 1,80,000 |
| 14% Loan | 2,00,000 | Debtors | 1,10,000 |
| Creditors | 1,40,000 | Bank | 80,000 |
| Bills payable | 50,000 | Cash | 30,000 |
| Outstanding expenses | 10,000 | | |

Revenue from operations for the year 2016-17 were Rs. 30,00,000

Solution:

| Revenue from Operations | = Rs. 30,00,000 |
|-------------------------|--|
| Capital Employed | = Share Capital + Reserves and |
| | Surplus + Long-term Debts |
| | (or Net Assets) |
| | = (Rs.4,00,000 + Rs.6,00,000) |
| | + (Rs.1,00,000 + Rs.3,00,000) |
| | + (Rs.2,00,000 + Rs.2,00,000) |
| | = Rs. 18,00,000 |
| Fixed Assets | = Rs.8,00,000 + Rs.5,00,000 + Rs.2,00,000 |
| | + Rs.1,00,000 = Rs. 16,00,000 |
| Working Capital | = Current Assets - Current Liabilities |
| | = Rs.4,00,000 - Rs.2,00,000 = Rs. 2,00,000 |

Net Assets Turnover Ratio = Rs.30,00,000/Rs.18,00,000 = 1.67 times Fixed Assets Turnover Ratio = Rs.30,00,000/Rs.16,00,000 = 1.88 times Working Capital Turnover Ratio = Rs.30,00,000/Rs.2,00,000 = 15 times.

| / | | Test your Understanding - III |
|-------|--------|--|
| (i) | The | is useful in evaluating credit and collection policies. |
| | A. | average payment period |
| | В. | current ratio |
| | C. | average collection period |
| | D. | current asset turnover |
| (ii) | The | measures the activity of a firm's inventory. |
| | A. | average collection period |
| | B. | inventory turnover |
| | C. | liquid ratio |
| | D. | current ratio |
| (iii) | The _ | may indicate that the firm is experiencing stockouts and lost |
| | sales. | |
| | A. | average payment period |
| | В. | inventory turnover ratio |
| | C. | average collection period |
| | D. | quick ratio |
| (iv) | | Co. extends credit terms of 45 days to its customers. Its credit collection be considered poor if its average collection period was. |
| | A. | 30 days |
| | В. | 36 days |
| | C. | 47 days |
| | D. | 37 days |
| (v) | | are especially interested in the average payment period, since it |
| | provid | es them with a sense of the bill-paying patterns of the firm. |
| | A. | Customers |
| | В. | Stockholders |
| | C. | Lenders and suppliers |
| | D. | Borrowers and buyers |
| (vi) | The _ | |
| | of the | |
| | A. | liquidity |
| | B. | activity |
| | C. | solvency |
| | D. | profitability |

5.9 Profitability Ratios

The profitability or financial performance is mainly summarised in the statement of profit and loss. Profitability ratios are calculated to analyse the earning capacity of the business which is the outcome of utilisation of resources employed in the business. There is a close relationship between the profit and the efficiency with which the resources employed in the business are utilised. The various ratios which are commonly used to analyse the profitability of the business are:

- 1. Gross profit ratio
- 2. Operating ratio
- 3. Operating profit ratio
- 4. Net profit ratio
- 5. Return on Investment (ROI) or Return on Capital Employed (ROCE)
- 6. Return on Net Worth (RONW)
- 7. Earnings per share
- 8. Book value per share
- 9. Dividend payout ratio
- 10. Price earning ratio.

5.9.1 Gross Profit Ratio

Gross profit ratio as a percentage of revenue from operations is computed to have an idea about gross margin. It is computed as follows:

Gross Profit Ratio = Gross Profit/Net Revenue of Operations 100

Significance: It indicates gross margin on products sold. It also indicates the margin available to cover operating expenses, non-operating expenses, etc. Change in gross profit ratio may be due to change in selling price or cost of revenue from operations or a combination of both. A low ratio may indicate unfavourable purchase and sales policy. Higher gross profit ratio is always a good sign.

Illustration 19

Following information is available for the year 2016-17, calculate gross profit ratio:

| | Rs. |
|-------------------------------|--------|
| Revenue from Operations: Cash | 25,000 |
| : Credit | 75,000 |
| Purchases: Cash | 15,000 |
| : Credit | 60,000 |
| Carriage Inwards | 2,000 |

| Salaries | 25,000 |
|-----------------------|--------|
| Decrease in Inventory | 10,000 |
| Return Outwards | 2,000 |
| Wages | 5,000 |

Solution:

| Revenue from Operations | = Cash Revenue from Operations + Credit Revenue from Opration |
|-------------------------|--|
| | = $Rs.25,000 + Rs.75,000 = Rs.1,00,000$ |
| Net Purchases | = Cash Purchases + Credit Purchases - Return Outwards |
| | = $Rs.15,000 + Rs.60,000 - Rs.2,000 = Rs.73,000$ |
| Cost of Revenue from | = Purchases + (Opening Inventory - Closing Inventory) + |
| operations | Direct Expenses |
| | = Purchases + Decrease in inventory + Direct Expenses |
| | = Rs.73,000 + Rs.10,000 + (Rs.2,000 + Rs.5,000) |
| | = Rs.90,000 |
| Gross Profit | Revenue from Operations – Cost of Revenue from Operation |
| | = Rs.1,00,000 - Rs.90,000 |
| | = Rs. 10,000 |
| Gross Profit Ratio | = Gross Profit/Net Revenue from Operations 100 |
| | = Rs.10,000/Rs.1,00,000 100 |
| | = 10%. |

5.9.2 Operating Ratio

It is computed to analyse cost of operation in relation to revenue from operations. It is calculated as follows:

```
Operating Ratio = (Cost of Revenue from Operations + Operating Expenses)/
Net Revenue from Operations 100
```

Operating expenses include office expenses, administrative expenses, selling expenses, distribution expenses, depreciation and employee benefit expenses etc.

Cost of operation is determined by excluding non-operating incomes and expenses such as loss on sale of assets, interest paid, dividend received, loss by fire, speculation gain and so on.

5.9.3 Operating Profit Ratio

It is calculated to reveal operating margin. It may be computed directly or as a residual of operating ratio.

```
Operating Profit Ratio = 100 - Operating Ratio
```

Alternatively, it is calculated as under:

Operating Profit Ratio = Operating Profit/ Revenue from Operations 100 Where Operating Profit = Revenue from Operations - Operating Cost

Significance: Operating ratio is computed to express cost of operations excluding financial charges in relation to revenue from operations. A corollary of it is 'Operating Profit Ratio'. It helps to analyse the performance of business and throws light on the operational efficiency of the business. It is very useful for inter-firm as well as intra-firm comparisons. Lower operating ratio is a very healthy sign.

Illustration 20

Given the following information:

Rs. Revenue from Operations 3,40,000 Cost of Revenue from Operations 1,20,000 Selling expenses 80,000 Administrative Expenses 40,000

Calculate Gross profit ratio and Operating ratio.

Solution:

Gross Profit = Revenue from Operations – Cost of Revenue from Operations = Rs. 3,40,000 -Rs. 1,20,000Rs. 2,20,000 **Gross Profit** 100 Gross Profit Ratio Revenue from operation Rs. 2,20,000 100 Rs. 3.40.000 64.71% Operating Cost Cost of Revenue from Operations + Selling Expenses + Administrative Expenses Rs. 1,20,000 + 80,000 + 40,000Rs. 2,40,000 Operating Cost Operating Ratio 100 Net Revenue from Operations Rs. 2,40,000 100 Rs. 3,40,000 70.59%

5.9.4 Net Profit Ratio

Net profit ratio is based on all inclusive concept of profit. It relates revenue from operations to net profit after operational as well as non-operational expenses and incomes. It is calculated as under:

```
Net Profit Ratio = Net profit/Revenue from Operations 100
```

Generally, net profit refers to profit after tax (PAT).

Significance: It is a measure of net profit margin in relation to revenue from operations. Besides revealing profitability, it is the main variable in computation of Return on Investment. It reflects the overall efficiency of the business, assumes great significance from the point of view of investors.

Illustration 21

Gross profit ratio of a company was 25%. Its credit revenue from operations was Rs. 20,00,000 and its cash revenue from operations was 10% of the total revenue from operations. If the indirect expenses of the company were Rs. 50,000, calculate its net profit ratio.

Solution:

Cash Revenue from Operations = Rs.20,00,000 10/90

= Rs.2,22,222 Hence, total Revenue from Operations are = Rs.2,22,222

Gross profit = 0.25 22,22,222 = Rs. 5,55,555

Net profit = Rs.5,55,555 - 50,000

= Rs.5,05,555

Net profit ratio = Net profit/Revenue from Operations

100

= Rs.5,05,555/Rs.22,22,222 100

= 22.75%.

5.9.5 Return on Capital Employed or Investment

It explains the overall utilisation of funds by a business enterprise. Capital employed means the long-term funds employed in the business and includes shareholders' funds, debentures and long-term loans. Alternatively, capital employed may be taken as the total of non-current assets and working capital. Profit refers to the Profit Before Interest and Tax (PBIT) for computation of this ratio. Thus, it is computed as follows:

Return on Investment (or Capital Employed) = Profit before Interest and Tax/ Capital Employed 100

Significance: It measures return on capital employed in the business. It reveals the efficiency of the business in utilisation of funds entrusted to it by shareholders, debenture-holders and long-term loans. For inter-firm comparison, return on capital employed funds is considered a good measure of profitability. It also

helps in assessing whether the firm is earning a higher return on capital employed as compared to the interest rate paid.

5.9.6 Return on Shareholders' Funds

This ratio is very important from shareholders' point of view in assessing whether their investment in the firm generates a reasonable return or not. It should be higher than the return on investment otherwise it would imply that company's funds have not been employed profitably.

A better measure of profitability from shareholders point of view is obtained by determining return on total shareholders' funds, it is also termed as Return on Net Worth (RONW) and is calculated as under:

Return on Shareholders' Fund =
$$\frac{\text{Profit after Tax}}{\text{Shareholders' Funds}}$$
 100

5.9.7 Earnings per Share

The ratio is computed as:

EPS = Profit available for equity shareholders/Number of Equity Shares

In this context, earnings refer to profit available for equity shareholders which is worked out as

Profit after Tax - Dividend on Preference Shares.

This ratio is very important from equity shareholders point of view and also for the share price in the stock market. This also helps comparison with other to ascertain its reasonableness and capacity to pay dividend.

5.9.8 Book Value per Share

This ratio is calculated as:

Book Value per share = Equity shareholders' funds/Number of Equity Shares Equity shareholder fund refers to Shareholders' Funds – Preference Share Capital. This ratio is again very important from equity shareholders point of view as it gives an idea about the value of their holding and affects market price of the shares.

5.9.9 Dividend Payout Ratio

This refers to the proportion of earning that are distributed to the shareholders. It is calculated as –

Dividend Payout Ratio =
$$\frac{\text{Dividend per share}}{\text{Earnings per share}}$$

This reflects company's dividend policy and growth in owner's equity.

5.9.10 Price / Earning Ratio

The ratio is computed as -

P/E Ratio = Market Price of a share/earnings per share

For example, if the EPS of X Ltd. is Rs. 10 and market price is Rs. 100, the price earning ratio will be 10 (100/10). It reflects investors expectation about the growth in the firm's earnings and reasonableness of the market price of its shares. P/E Ratio vary from industy to industry and company to company in the same industry depending upon investors perception of their future.

Illustration 22

From the following details, calculate Return on Investment:

| Share Capital : Equity (Rs.10) | Rs. 4,00,000 | Current Liabilities | Rs. 1,00,000 |
|--------------------------------|--------------|---------------------|--------------|
| 12% Preference | Rs. 1,00,000 | Fixed Assets | Rs. 9,50,000 |
| General Reserve | Rs. 1,84,000 | Current Assets | Rs. 2,34,000 |
| 10% Debentures | Rs. 4,00,000 | 1 . 6 | |

Also calculate Return on Shareholders' Funds, EPS, Book value per share and P/E ratio if the market price of the share is Rs. 34 and the net profit after tax was Rs. 1,50,000, and the tax had amounted to Rs. 50,000.

Solution:

| Profit before interest and tax | = | Rs. 1,50,000 + Debenture interest + Tax |
|--------------------------------|---|---|
| | = | Rs. 1,50,000 + Rs. 40,000 + Rs. 50,000 |
| | = | Rs.2,40,000 |
| Capital Employed | = | Equity Share Capital + Preference Share |
| | | Capital + Reserves + Debentures |
| | = | Rs. 4,00,000 + Rs. 1,00,000 + Rs. 1,84,000 |
| | | + Rs. 4,00,000 = Rs. 10,84,000 |
| Return on Investment | = | Profit before Interest and Tax/ |
| XV | | Capital Employed 100 |
| | = | Rs. 2,40,000/Rs. 10,84,000 100 |
| | = | 22.14% |
| Shareholders' Fund | = | Equity Share Capital + Preference Share Capital |
| | | + General Reserve |
| | = | Rs. 4,00,000 + Rs. 1,00,000 + Rs. 1,84,000 |
| | = | Rs. 6,84,000 |
| Return on Shareholders' Funds | = | Profit after tax/shareholders' Funds 100 |
| | = | Rs. 1,50,000/Rs. 6,84,000 100 |
| | = | 21.93% |
| EPS | = | Profit available for Equity Shareholders/ |
| | | Number of Equity Shares |
| | = | Rs. $1,38,000/40,000 = Rs. 3.45$ |

Preference Share Dividend = Rate of Dividend Prefence Share Capital

= 12% of Rs. 1,00,000

= Rs. 12.000

Profit available to equity

Shareholders

= Profit after Tax – Preference dividend on

preference shares

where, Dividend on Prefrence = Rate of Dividend Preference Share Capital

shares

= 12% of Rs. 1,00,000

= Rs.12,000

= Rs. 1,50,000 - Rs. 12,000 = Rs. 1,38,000

P/E Ratio = Market price of a share/ Earnings per share

= 34/3.45 = 9.86 Times

Book Value per share = Equity Shareholders' fund/No. of

_

equity shares

where, Number of Equity Shares = Equity share capital

Face value per share

Rs. 4,00,000 Rs. 10

= 40,000 shares

Hence, Book value per share = Rs. 5,84,000/40,000 shares = Rs. 14.60

It may be noted that various ratios are related with each other. Sometimes, the combined information regarding two or more ratios is given and missing figures may need to be calculated. In such a situation, the formula of the ratio will help in working out the missing figures (See Illsuatration 23 and 24).

Illustration 23

Calculate current assets of a company from the following information:

Inventory turnover ratio = 4 times

Inventory at the end is Rs. 20,000 more than the inventory in the beginning.

Revenue from Operations Rs. 3,00,000 and gross profit ratio is 20% of revenue from operations.

Current liabilities = Rs. 40,000 Quick ratio = 0.75 : 1

Solution:

Cost of Revenue from Operations = Revenue from Operations - Gross Profit

= Rs. 3,00,000 - (Rs. 3,00,000 20%)

= Rs. 3,00,000 - Rs. 60,000

= Rs. 2.40.000

Inventory Turnover Ratio = Cost of Revenue from Operations/ Average Inventory

Average Inventory = Cost of Revenue from Operations/4 = Rs. 2,40,000/4 = Rs. 60,000= (Opening inventory + Closing inventory)/2 Average Inventory Rs. 60,000 = Opening inventory + (Opening inventory +Rs.20.000)/2Rs. 60.000 = Opening inventory + Rs. 10,000 = Rs. 50,000**Opening Inventory** Closing Inventory = Rs. 70.000Liquid Ratio = Liquid assets/current liabilities 0.75 = Liquid assets/Rs. 40,000 = Rs. 40,000 0.75 = Rs. 30,000Liquid Assets = Liquid assets + Closing inventory **Current Assets** = Rs. 30,000 + Rs. 70,000 = Rs. 1,00,000

Illustration 24

The current ratio is 2.5:1. Current assets are Rs. 50,000 and current liabilities are Rs. 20,000. How much must be the decline in the current assets to bring the ratio to 2:1

Solution:

Current liabilities = Rs. 20,000
For a ratio of 2: 1, the current assets must be 2 20,000 = Rs. 40,000
Present level of current assets = Rs. 50,000
Recessary decline = Rs. 50,000 - Rs. 40,000
Rs. 10,000

Illustration 25

Following information is given by a company from its books of accounts as on March 31, 2017:

| Particulars | (Rs.) |
|---------------------------------|----------|
| Inventory | 1,00,000 |
| Total Current Assets | 1,60,000 |
| Shareholders' funds | 4,00,000 |
| 13% Debentures | 3,00,000 |
| Current liabilities | 1,00,000 |
| Net Profit Before Tax | 3,51,000 |
| Cost of revenue from operations | 5,00,000 |
| | |

Calculate:

- i) Current Ratio
- ii) Liquid Ratio
- iii) Debt Equity Ratio
- iv) Interest Coverage Ratio
- v) Inventory Turnover Ratio

Solution:

i) Current Ratio
$$= \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

$$= \frac{\text{Rs.}1,60,000}{\text{Rs.}1,00,000} = 1.6:1$$
ii) Liquid Assets
$$= \text{Current assets} - \text{Inventory}$$

$$= \text{Rs.}1,60,000 - \text{Rs.}1,00,000$$

$$= \text{Rs.}60,000$$

$$= \text{Rs.}60,000$$

$$= \frac{\text{Liquid Assets}}{\text{Current Liabilities}}$$

$$= \frac{\text{Rs.}60,000}{\text{Rs.}1,00,000} = 0.6:1$$
iii) Debt-Equity Ratio
$$= \frac{\text{Long-term Debts}}{\text{Shareholders' Funds}}$$

$$= \frac{\text{Rs.}3,00,000}{\text{Rs.}4,00,000} = 0.75:1$$
iv) Net Profit before Interest
$$\frac{\text{Rs.}3,51,000}{\text{Rs.}3,51,000} + (13\% \text{ of Rs.}3,00,000)$$

$$= \frac{\text{Rs.}3,51,000}{\text{Rs.}3,51,000} + \text{Rs.}3,90,000 = \text{Rs.}3,90,000$$

$$= \frac{\text{Net Profit before Interest & Tax}}{\text{Interest on Long Term Debts}}$$

$$= \frac{\text{Rs.}3,90,000}{\text{Rs.}3,90,000} = 10 \text{ times}$$

$$= \frac{\text{Rs.}3,90,000}{\text{Rs.}3,90,000} = 5 \text{ times}$$

$$= \frac{\text{Rs.}5,00,000}{\text{Rs.}1,00,000} = 5 \text{ times}$$

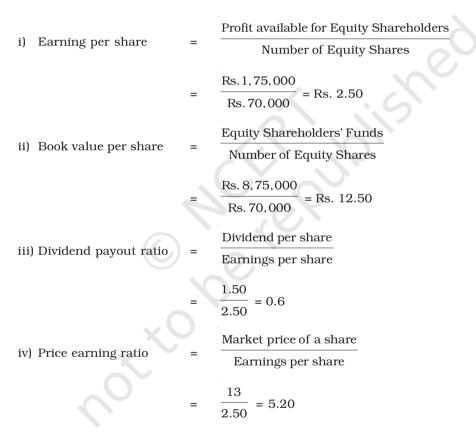
Note: In absence of information regarding 'Inventory in the beginning' and 'Inventory at the end', the 'Inventory' is treated as Average Inventory.

Illustration 26

From the following information calculate (i) Earning per share (ii) Book value per share (iii) Dividend payout ratio (iv) Price earning ratio

| Particulars | (Rs.) |
|--|----------------------|
| 70,000 equity shares of Rs. 10 each | 7,00,000 1,75,000 |
| Net Profit after tax but before dividend | 1,75,000 |
| Market price of a share | 13 |
| Dividend declared @ 15% | |

Solution:



Terms Introduced in the Chapter

8. Shareholders' Funds (Equity) 1. Ratio Analysis 2. 9. Return on Net Worth Liquidity Ratios 3. Solvency Ratios 10. Average Collection Period **Activity Ratios** 11. 4. Trade Receivables 5. Profitability Ratios 12. Turnover Ratios 6. Return on Investment (ROI) 13. Efficiency Ratios

7.

Quick Assets

Summary

Ratio Analysis: An important tool of financial statement analysis is ratio analysis. Accounting ratios represent relationship between two accounting numbers.

14.

Dividend Payout

Objective of Ratio Analysis: The objective of ratio analysis is to provide a deeper analysis of the profitability, liquidity, solvency and activity levels in the business. It is also to identify the problem areas as well as the strong areas of the business.

Advantages of Ratio Analysis: Ratio analysis offers many advantages including enabling financial statement analysis, helping understand efficacy of decisions, simplifying complex figures and establish relationships, being helpful in comparative analysis, identification of problem areas, enables SWOT analysis, and allows various comparisons.

Limitations of Ratio Analysis: There are many limitations of ratio analysis. Few are based because of the basic limitations of the accounting data on which it is based. In the first set are included factors like Historical Analysis, Ignores Price-level Changes, Ignore Qualitative or Non-monetary Aspects, Limitations of Accounting Data, Variations in Accounting Practices, and Forecasting. In the second set are included factor like means and not the end, lack of ability to resolve problems, lack of standardised definitions, lack of universally accepted standard levels, and ratios based on unrelated figures.

Types of Ratios: There are many types of ratios, viz., liquidity, solvency, activity and profitability ratios. The liquidity ratios include current ratio and acid test ratio. Solvency ratios are calculated to determine the ability of the business to service its debt in the long run instead of in the short run. They include debt equity ratio, total assets to debt ratio, proprietary

ratio and interest coverage ratio. The turnover ratios basically exhibit the activity levels characterised by the capacity of the business to make more sales or turnover and include Inventory Turnover, Trade Receivables Turnover, Trade Payables Turnover, Working Capital Turnover, Fixed Assets Turnover and Current assets Turnover. Profitability ratios are calculated to analyse the earning capacity of the business which is the outcome of utilisation of resources employed in the business. The ratios include Gross Profit ratio, Operating ratio, Net Profit Ratio, Return on investment (Capital employed), Earnings per Share, Book Value per Share, Dividend per Share and Price/Earning ratio.

Questions for Practice

Short Answer Questions

- 1. What do you mean by Ratio Analysis?
- 2. What are various types of ratios?
- 3. What relationships will be established to study
 - a. Inventory turnover
 - b. Trade receivables turnover
 - c. Trade payables turnover
 - d. Working capital turnover
- 4. The liquidity of a business firm is measured by its ability to satisfy its long-term obligations as they become due. What are the ratios used for this purpose?
- 5. The average age of inventory is viewed as the average length of time inventory is held by the firm for which explain with reasons.

Long Answer Questions

- 1. What are liquidity ratios? Discuss the importance of current and liquid ratio.
- 2. How would you study the Solvency position of the firm?
- 3. What are various profitability ratios? How are these worked out?
- 4. The current ratio provides a better measure of overall liquidity only when a firm's inventory cannot easily be converted into cash. If inventory is liquid, the quick ratio is a preferred measure of overall liquidity. Explain.

Numerical Questions

1. Following is the Balance Sheet of Raj Oil Mills Limited as at March 31, 2017. Calculate current ratio.

| | Paı | (Rs.) | |
|-----|-----|------------------------------|----------|
| I. | Eq | | |
| | 1. | Shareholders' funds | |
| | | a) Share capital | 7,90,000 |
| | | b) Reserves and surplus | 35,000 |
| | 2. | Current Liabilities | |
| | | Trade Payables | 72,000 |
| To | tal | | 8,97,000 |
| II. | Ass | sets | |
| | 1. | Non-current Assets | |
| | | Fixed assets | |
| | | – Tangible assets | 7,53,000 |
| | 2. | Current Assets | |
| | | a) Inventories | 55,800 |
| | | b) Trade Receivables | 28,800 |
| | | c) Cash and cash equivalents | 59,400 |
| To | tal | | 8,97,000 |

(Ans: Current Ratio 2:1)

2. Following is the Balance Sheet of Title Machine Ltd. as at March 31, 2017.

| | | Paı | ticulars | Amount |
|-----|-----|------|-------------------------------|-----------|
| | | | | (Rs.) |
| I. | Eq | uity | and Liabilities | |
| | 1. | Sha | areholders' funds | |
| | | a) | Share capital | 24,00,000 |
| | | b) | Reserves and surplus | 6,00,000 |
| | 2. | No | n-current liabilities | |
| | | | Long-term borrowings | 9,00,000 |
| | 3. | Cu | rrent liabilities | |
| | | a) | Short-term borrowings | 6,00,000 |
| | | b) | Trade payables | 23,40,000 |
| | | c) | Short-term provisions | 60,000 |
| To | tal | | | 69,00,000 |
| II. | Ass | sets | \sim \circ | |
| | 1. | No | n-current assets | |
| | | | Fixed assets | |
| | | | - Tangible assets | 45,00,000 |
| | 2. | Cu | rrent Assets | |
| | | a) | Inventories | 12,00,000 |
| | | b) | Trade receivables | 9,00,000 |
| | | c) | * | 2,28,000 |
| | | d) | Short-term loans and advances | 72,000 |
| To | tal | | | 69,00,000 |

Calculate Current Ratio and Liquid Ratio.

(Ans: Current Ratio 0.8: 1, Liquid Ratio 0.4: 1)

3. Current Ratio is 3.5: 1. Working Capital is Rs. 90,000. Calculate the amount of Current Assets and Current Liabilities.

(Ans: Current Assets Rs. 1,26,000 and Current Liabilities Rs. 36,000)

4. Shine Limited has a current ratio 4.5: 1 and quick ratio 3: 1; if the inventory is 36,000, calculate Current Liabilities and Current Assets.

(Ans: Current Assets Rs. 1,08,000, Current Liabilities Rs. 24,000)

- 5. Current Liabilities of a company are Rs. 75,000. If current ratio is 4:1 and Liquid Ratio is 1:1, calculate value of Current Assets, Liquid Assets and Inventory. (Ans: Current Assets Rs. 3,00,000, Liquid Assets Rs. 75,000 and Inventory Rs. 2,25,000)
- 6. Handa Ltd. has inventory of Rs. 20,000. Total liquid assets are Rs. 1,00,000 and quick ratio is 2:1. Calculate current ratio.

(**Ans:** Current Ratio 2.4:1)

7. Calculate debt-equity ratio from the following information:

Total Assets
Current Liabilities
Rs. 15,00,000
Rs. 6,00,000
Rs. 12,00,000

(**Ans:** Debt-Equity Ratio 2 : 1.)

8. Calculate Current Ratio if:

Inventory is Rs. 6,00,000; Liquid Assets Rs. 24,00,000; Quick Ratio 2:1.

(**Ans:** Current Ratio 2.5 : 1)

9. Compute Inventory Turnover Ratio from the following information:

| Revenue from Operations | Rs. | 2,00,000 |
|-------------------------|-----|----------|
| Gross Profit | Rs. | 50,000 |
| Inventory at the end | Rs. | 60,000 |

Excess of inventory at the end over

inventory in the beginning Rs. 20,000

(Ans: Inventory Turnover Ratio 3 times)

- 10. Calculate following ratios from the following information:
 - (i) Current ratio (ii) Liquid ratio (iii) Operating Ratio (iv) Gross profit ratio

| Current Assets | Rs. 35,000 |
|--------------------------------|------------|
| Current Liabilities | Rs. 17,500 |
| Inventory | Rs. 15,000 |
| Operating Expenses | Rs. 20,000 |
| Revenue from Operations | Rs. 60,000 |
| Cost of Revenue from operation | Rs. 30,000 |

(Ans: Current Ratio 2:1; Liquid Ratio 1.14:1; Operating Ratio 83.3%; Gross Profit Ratio 50%)

- 11. From the following information calculate:
 - (i) Gross Profit Ratio (ii) Inventory Turnover Ratio (iii) Current Ratio (iv) Liquid Ratio (v) Net Profit Ratio (vi) Working Capital Ratio:

| Revenue from Operations | Rs. | 25,20,000 |
|------------------------------------|-----|-----------|
| Net Profit | Rs. | 3,60,000 |
| Cost of Revenue from Operations | Rs. | 19,20,000 |
| Long-term Debts | Rs. | 9,00,000 |
| Trade Payables | Rs. | 2,00,000 |
| Average Inventory | Rs. | 8,00,000 |
| Liquid Assets | Rs. | 7,60,000 |
| Fixed Assets | Rs. | 14,40,000 |
| Current Liabilities | Rs. | 6,00,000 |
| Net Profit before Interest and Tax | Rs. | 8,00,000 |

(**Ans:** Gross Profit Ratio 23.81%; Inventory Turnover Ratio 2.4 times; Current Ratio 2.6: 1; Liquid Ratio 1.27: 1; Net Profit Ratio 14.29%; Working Capital Ratio 2.625 times)

12. Compute Working Capital Turnover Ratio, Debt Equity Ratio and Proprietary Ratio from the following information:

| Paid-up Share Capital | Rs. 5,00,000 |
|-------------------------|---------------|
| Current Assets | Rs. 4,00,000 |
| Revenue from Operations | Rs. 10,00,000 |
| 13% Debentures | Rs. 2,00,000 |
| Current Liabilities | Rs. 2,80,000 |

(**Ans:** Working Capital Ratio 8.33 times; Debt–Equity Ratio 0.4:1; Proprietary Ratio 0.71:1)

13. Calculate Inventory Turnover Ratio if:

Inventory in the beginning is Rs. 76,250, Inventory at the end is Rs. 98,500, Sales is Rs. 5,20,000, Sales Return is Rs. 20,000, Purchases is Rs. 3,22,250.

(Ans: Inventory Turnover Ratio 3.43 times)

14. Calculate Inventory Turnover Ratio from the data given below:

| Inventory in the beginning of the year | Rs. | 10,000 |
|--|-----|--------|
| Inventory at the end of the year | Rs. | 5,000 |
| Carriage | Rs. | 2,500 |
| Revenue from Operations | Rs. | 50,000 |
| Purchases | Rs. | 25,000 |

(Ans: Inventory Turnover Ratio 4.33 times)

15. A trading firm's average inventory is Rs. 20,000 (cost). If the inventory turnover ratio is 8 times and the firm sells goods at a gross profit of 20% on sales, ascertain the gross profit of the firm.

(**Ans:** Gross Profit Rs. 40,000)

| 16. You are able to collect the f | ollowing information about | a company for two years: |
|-----------------------------------|----------------------------|--------------------------|
| | | |

| | 2015-16 | 2016-17 |
|---------------------------------|--------------|---------------|
| Trade receivables on Apr. 01 | Rs. 4,00,000 | Rs. 5,00,000 |
| Trade receivables on Mar. 31 | | Rs. 5,60,000 |
| Stock in trade on Mar. 31 | Rs. 6,00,000 | Rs. 9,00,000 |
| Revenue from operations | Rs. 3,00,000 | Rs. 24,00,000 |
| (gross profit is 25% on cost of | | |
| Revenue from operations) | | |

Calculate Inventory Turnover Ratio and Trade Receivables Turnover Ratio

(Ans: 2015-16: Inventory Turnover Ratio 2.67 times, Trade Receivables Turnover Ratio 4.41 times), 2016-17: Inventory Turnover Ratio 2.13 times Trade Receivable Turn over Ratio 4.53 times.

- 17. From the following Balance Sheet and other information, calculate following ratios:
 - (i) Debt-Equity Ratio (ii) Working Capital Turnover Ratio (iii) Trade Receivables Turnover Ratio

Balance Sheet as at March 31, 2017

| | Pa | rticulars | Note | (Rs.) |
|-----|-----|--|------|-----------|
| | | | No. | |
| I. | Eq | uity and Liabilities: | | |
| | 1. | Shareholders' funds | | |
| | | a) Share capital | | 10,00,000 |
| | | b) Reserves and surplus | | 7,00,000 |
| | | c) Money received against share warrants | | 2,00,000 |
| | 2. | Non-current Liabilities | | |
| | | Long-term borrowings | | 12,00,000 |
| | 3. | Current Liabilities | | |
| | | Trade payables | | 5,00,000 |
| To | tal | | | 36,00,000 |
| II. | Ass | sets | | |
| | 1. | Non-current Assets | | |
| | | Fixed assets | | |
| | | Tangible assets | | 18,00,000 |
| | 2. | Current Assets | | |
| | | a) Inventories | | 4,00,000 |
| | | b) Trade Receivables | | 9,00,000 |
| | | c) Cash and cash equivalents | | 5,00,000 |
| To | tal | | | 36,00,000 |
| | | | | |

Additional Information: Revenue from Operations Rs. 18,00,000

(Ans: Debt-Equity Ratio 0.63: 1; Working Capital Turnover Ratio 1.38 times; Trade Receivables Turnover Ratio 2 times)

- 18. From the following information, calculate the following ratios:
 - i) Liquid Ratio
 - ii) Inventory turnover ratio
 - iii) Return on investment

| | Rs. |
|---|----------|
| Inventory in the beginning | 50,000 |
| Inventory at the end | 60,000 |
| Net Profit | 2,17,900 |
| 10% Debentures | 2,50,000 |
| Revenue from operations | 4,00,000 |
| Gross Profit | 1,94,000 |
| Cash and Cash Equivalents | 40,000 |
| Money received against share warrants | 20,000 |
| Trade Receivables | 1,00,000 |
| Trade Payables | 1,90,000 |
| Other Current Liabilities | 70,000 |
| Share Capital | 2,00,000 |
| Reserves and Surplus | 1,20,000 |
| (Balance in the Statement of Profit & Loss) | |

(**Ans:** Liquid Ratio 0.54:1; Inventory Turnover Ratio 3.75 times; Return on Investment 41.17%)

19. From the following, calculate (a) Debt-Equity Ratio (b) Total Assets to Debt Ratio (c) Proprietary Ratio.

| Equity Share Capital | Rs. 75,000 |
|---|------------|
| Share application money pending allotment | Rs. 25,000 |
| General Reserve | Rs. 45,000 |
| Balance in the Statement of Profit & Loss | Rs. 30,000 |
| Debentures | Rs. 75,000 |
| Trade Payables | Rs. 40,000 |
| Outstanding Expenses | Rs. 10,000 |

(**Ans:** Debt-Equity Ratio 0.43:1; Total Assets to Debt Ratio 4:1; Proprietary Ratio 0.58:1)

20. Cost of Revenue from Operations is Rs. 1,50,000. Operating expenses are Rs. 60,000. Revenue from Operations is Rs. 2,50,000. Calculate Operating Ratio.

(Ans: Operating Ratio 84%)

- 21. Calculate the following ratio on the basis of following information:
 - (i) Gross Profit Ratio (ii) Current Ratio (iii) Acid Test Ratio (iv) Inventory Turnover Ratio (v) Fixed Assets Turnover Ratio

| | Rs. |
|---------------------------|----------|
| Gross Profit | 50,000 |
| Revenue from Operations | 1,00,000 |
| Inventory | 15,000 |
| Trade Receivables | 27,500 |
| Cash and Cash Equivalents | 17,500 |
| Current Liablilites | 40,000 |
| Land & Building | 50,000 |
| Plant & Machinery | 30,000 |
| Furniture | 20,000 |

(Ans: (i) Gross Profit Ratio 50%; (ii) Current Ratio 1.5:1; (iii) Liquid Ratio 1.125:1, Inventory Turnover Ratio 3.33 times; (iv) Fixed Assets Turnover Ratio 1:1)

22. From the following information calculate Gross Profit Ratio, Inventory Turnover Ratio and Trade Receivable Turnover Ratio.

| Revenue from Operations | Rs. 3 | 3,00,000 |
|---------------------------------|-------|----------|
| Cost of Revenue from Operations | Rs. 2 | 2,40,000 |
| Inventory at the end | Rs. | 62,000 |
| Gross Profit | Rs. | 60,000 |
| Inventory in the beginning | Rs. | 58,000 |
| Trade Receivables | Rs. | 32,000 |

(**Ans:** Gross Profit Ratio 20%; Inventory Turnover Ratio 4 times; Trade Receivables Turnover Ratio 9.375 times)

Answers to Test your Understanding

Test your Understanding - I

(a) F, (b) T, (c) T, (d) F, (e) T, (F) F

Test your Understanding - II

(i) D, (ii) D, (iii) B, (iv) A, (v) B, (vi) D

Test your Understanding - III

(i) C, (ii) B, (iii) B, (iv) C, (v) C, (vi) C

Till now you have learnt about the financial statements being primarily inclusive of Position Statement (showing the financial position of an enterprise as on a particular date) and Income Statement (showing the result of the operational activities of an enterprise over a particular period). There is also a third important financial statement known as Cash flow statement, which shows inflows and outflows of the cash and cash equivalents. This statement is usually prepared by companies which comes as a tool in the hands of users of financial information to know about the sources and uses of cash and cash equivalents of an enterprise over a period of time from various activities of an enterprise. It has gained substantial importance in the last decade because of its practical utility to the users of financial information.

Financial Statement of companies are prepared following the accounting standards prescribed in the companies Act, 2013. Accounting Standards are notified under section 133 of the Companies Act, 2013 vide Accounting Standards Rules, 2006 and are mandatory in nature. Companies Act, 2013 also specifies that if the accounting standards are not followed, financial statements will not be true and fair, which is a quality of financial statement. Financial Statements are defined in Companies Act, 2013 (Section 2 (40)] and includes Cash Flow Statement prepared in accordance with Accounting Standard- 3 (AS-3)- Cash Flow Statement.

A cash flow statement provides information about the historical changes in cash and cash

LEARNING OBJECTIVES

After studying this chapter, you will be able to:

- state the purpose and preparation of statement of cash flow statement.
- distinguish between operating activities, investing activities and financing activities;
- prepare the statement of cash flows using direct method;
- prepare the cash flow statement using indirect method.

equivalents of an enterprise by classifying cash flows into operating, investing and financing activities. It requires that an enterprise should prepare a cash flow statement and should present it for each accounting period for which financial statements are presented. This chapter discusses this technique and explains the method of preparing a cash flow statement for an accounting period.

6.1 Objectives of Cash Flow Statement

A Cash flow statement shows inflow and outflow of cash and cash equivalents from various activities of a company during a specific period. The primary objective of cash flow statement is to provide useful information about cash flows (inflows and outflows) of an enterprise during a particular period under various heads, i.e., operating activities, investing activities and financing activities.

This information is useful in providing users of financial statements with a basis to assess the ability of the enterprise to generate cash and cash equivalents and the needs of the enterprise to utilise those cash flows. The economic decisions that are taken by users require an evaluation of the ability of an enterprise to generate cash and cash equivalents and the timing and certainty of their generation.

6.2 Benefits of Cash Flow Statement

Cash flow statement provides the following benefits:

- A cash flow statement when used along with other financial statements
 provides information that enables users to evaluate changes in net assets
 of an enterprise, its financial structure (including its liquidity and
 solvency) and its ability to affect the amounts and timings of cash flows
 in order to adapt to changing circumstances and opportunities.
- Cash flow information is useful in assessing the ability of the enterprise to generate cash and cash equivalents and enables users to develop models to assess and compare the present value of the future cash flows of different enterprises.
- It also enhances the comparability of the reporting of operating performance by different enterprises because it eliminates the effects of using different accounting treatments for the same transactions and events.
- It also helps in balancing its cash inflow and cash outflow, keeping in response to changing condition. It is also helpful in checking the accuracy of past assessments of future cash flows and in examining the relationship between profitability and net cash flow and impact of changing prices.

6.3 Cash and Cash Equivalents

As stated earlier, cash flow statement shows inflows and outflows of cash and cash equivalents from various activities of an enterprise during a particular period. As per AS-3, 'Cash' comprises cash in hand and demand deposits with banks, and 'Cash equivalents' means short-term highly liquid investments that are readily convertible into known amounts of cash and which are subject to an insignificant risk of changes in value. An investment normally qualifies as cash equivalents only when it has a short maturity, of say, three months or less from the date of acquisition. Investments in shares are excluded from cash equivalents unless they are in substantial cash equivalents. For example, preference shares of a company acquired shortly before their specific redemption date, provided there is only insignificant risk of failure of the company to repay the amount at maturity. Similarly, short-term marketable securities which can be readily converted into cash are treated as cash equivalents and is liquidable immediately without considerable change in value.

6.4 Cash Flows

'Cash Flows' implies movement of cash in and out due to some non-cash items. Receipt of cash from a non-cash item is termed as cash inflow while cash payment in respect of such items as cash outflow. For example, purchase of machinery by paying cash is cash outflow while sale proceeds received from sale of machinery is cash inflow. Other examples of cash flows include collection of cash from trade receivables, payment to trade payables, payment to employees, receipt of dividend, interest payments, etc.

Cash management includes the investment of excess cash in cash equivalents. Hence, purchase of marketable securities or short-term investment which constitutes cash equivalents is not considered while preparing cash flow statement.

6.5 Classification of Activities for the Preparation of Cash Flow Statement

You know that various activities of an enterprise result into cash flows (inflows or receipts and outflows or payments) which is the subject matter of a cash flow statement. As per AS-3, these activities are to be classified into three categories: (1) operating, (2) investing, and (3) financing activities so as to show separately the cash flows generated (or used) by (in) these activities. This helps the users of cash flow statement to assess the impact of these activities on the financial position of an enterprise and also on its cash and cash equivalents.

6.5.1 Cash from Operating Activities

Operating activities are the activities that constitute the primary or main activities of an enterprise. For example, for a company manufacturing garments, operating activities are procurement of raw material, incurrence of manufacturing expenses, sale of garments, etc. These are the principal revenue generating activities (or the main activities) of the enterprise and these activities are not investing or financing activities. The amount of cash from operations' indicates the internal solvency level of the company, and is regarded as the key indicator of the extent to which the operations of the enterprise have generated sufficient cash flows to maintain the operating capability of the enterprise, paying dividends, making of new investments and repaying of loans without recourse to external source of financing.

Cash flows from operating activities are primarily derived from the main activities of the enterprise. They generally result from the transactions and other events that enter into the determination of net profit or loss. Examples of cash flows from operating activities are:

Cash Inflows from operating activities

- cash receipts from sale of goods and the rendering of services.
- cash receipts from royalties, fees, commissions and other revenues.

Cash Outflows from operating activities

- Cash payments to suppliers for goods and services.
- Cash payments to and on behalf of the employees.
- Cash payments to an insurance enterprise for premiums and claims, annuities, and other policy benefits.
- Cash payments of income taxes unless they can be specifically identified with financing and investing activities.

The net position is shown in case of operating cash flows.

An enterprise may hold securities and loans for dealing or for trading purposes. In either case they represent Inventory specifically held for resale. Therefore, cash flows arising from the purchase and sale of dealing or trading securities are classified as operating activities. Similarly, cash advances and loans made by financial enterprises are usually classified as operating activities since they relate to main activity of that enterprise.

6.5.2 Cash from Investing Activities

As per AS-3, investing activities are the acquisition and disposal of long-term assets and other investments not included in cash equivalents. Investing activities relate to purchase and sale of long-term assets or fixed assets such

as machinery, furniture, land and building, etc. Transactions related to long-term investment are also investing activities.

Separate disclosure of cash flows from investing activities is important because they represent the extent to which expenditures have been made for resources intended to generate future income and cash flows. Examples of cash flows arising from investing activities are:

Cash Outflows from investing activities

- Cash payments to acquire fixed assets including intangibles and capitalised research and development.
- Cash payments to acquire shares, warrants or debt instruments of other enterprises other than the instruments those held for trading purposes.
- Cash advances and loans made to third party (other than advances and loans made by a financial enterprise wherein it is operating activities).

Cash Inflows from Investing Activities

- Cash receipt from disposal of fixed assets including intangibles.
- Cash receipt from the repayment of advances or loans made to third parties (except in case of financial enterprise).
- Cash receipt from disposal of shares, warrants or debt instruments of other enterprises except those held for trading purposes.
- Interest received in cash from loans and advances.
- Dividend received from investments in other enterprises.

6.5.3 Cash from Financing Activities

As the name suggests, financing activities relate to long-term funds or capital of an enterprise, e.g., cash proceeds from issue of equity shares, debentures, raising long-term bank loans, repayment of bank loan, etc. As per AS-3, financing activities are activities that result in changes in the size and composition of the owners' capital (including preference share capital in case of a company) and borrowings of the enterprise. Separate disclosure of cash flows arising from financing activities is important because it is useful in predicting claims on future cash flows by providers of funds (both capital and borrowings) to the enterprise. Examples of financing activities are:

Cash Inflows from financing activities

- Cash proceeds from issuing shares (equity or/and preference).
- Cash proceeds from issuing debentures, loans, bonds and other short/ long-term borrowings.

Cash Outflows from financing activities

- Cash repayments of amounts borrowed.
- Interest paid on debentures and long-term loans and advances.
- Dividends paid on equity and preference capital.

It is important to mention here that a transaction may include cash flows that are classified differently. For example, when the instalment paid in respect of a fixed asset acquired on deferred payment basis includes both interest and loan, the interest element is classified under financing activities and the loan element is classified under investing activities. Moreover, same activity may be classified differently for different enterprises. For example, purchase of shares is an operating activity for a share brokerage firm while it is investing activity in case of other enterprises.

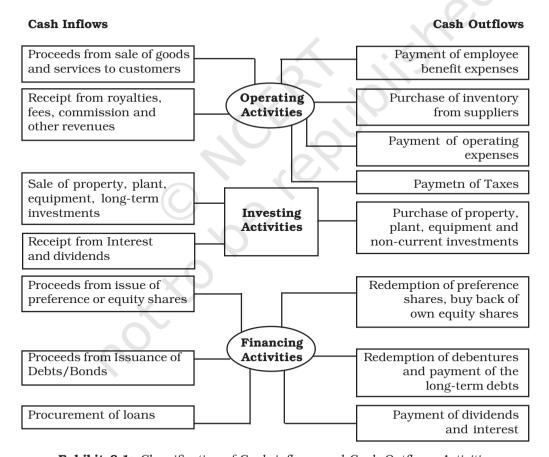


Exhibit 6.1: Classification of Cash inflows and Cash Outflows Activities

6.5.4 Treatment of Some Peculiar Items

Extraordinary items

Extraordinary items are not the regular phenomenon, e.g., loss due to theft or earthquake or flood. Extraordinary items are non-recurring in nature and hence cash flows associated with extraordinary items should be classified and disclosed separately as arising from operating, investing or financing activities. This is done to enable users to understand their nature and effect on the present and future cash flows of an enterprise.

Interest and Dividend

In case of a financial enterprise (whose main business is lending and borrowing), interest paid, interest received and dividend received are classified as operating activities while dividend paid is a financing activity.

In case of a non-financial enterprise, as per AS-3, it is considered more appropriate that payment of interest and dividends are classified as financing activities whereas receipt of interest and dividends are classified as investing activities.

Taxes on Income and Gains

Taxes may be income tax (tax on normal profit), capital gains tax (tax on capital profits), dividend tax (tax on the amount distributed as dividend to shareholders). AS-3 requires that cash flows arising from taxes on income should be separately disclosed and should be classified as cash flows from operating activities unless they can be specifically identified with financing and investing activities. This clearly implies that:

- tax on operating profit should be classified as operating cash flows.
- dividend tax, i.e., tax paid on dividend should be classified as financing activity along with dividend paid.
- Capital gains tax paid on sale of fixed assets should be classified under investing activities.

Non-cash Transactions

As per AS-3, investing and financing transactions that do not require the use of cash or cash equivalents should be excluded from a cash flow statement. Examples of such transactions are – acquisition of machinery by issue of equity shares or redemption of debentures by issue of equity shares. Such transactions should be disclosed elsewhere in the financial statements in a way that provide all the relevant information about these investing and financing activities. Hence, assets acquired by issue of shares are not disclosed in cash flow statement due to non-cash nature of the transaction.

With these three classifications, Cash Flow Statement is shown in Exhibit 6.2.

Cash Flow Statement (Main heads only)

| (A) Cash flows from operating activities(B) Cash flows from investing activities(C) Cash flows from financing activities | XXX XXX XXX | |
|--|-------------------|----------|
| Net increase (decrease) in cash and cash equivalents (A + B + C) + Cash and cash equivalents at the beginning | XXX | |
| = Cash and cash equivalents at the end | XXXX | \ |

Exhibit 6.2: Sharing Specimen Cash Flow Statement

Test your Understanding - I

| | rest your onderstanding - 1 | | | | |
|-----|--|-----|--|--|--|
| | Classify the following activities into operating activities, investing activities, financing activities, cash equivalents. | | | | |
| 1. | Purchase of machinery. | 2. | Proceeds from issue of equity share capital. | | |
| 3. | Cash revenue from operations. | 4. | Proceeds from long-term borrowings. | | |
| 5. | Proceeds from sale of old machinery. | 6. | Cash receipt from trade receivables. | | |
| 7. | Trading commission received. | 8. | Purchase of non-current investment. | | |
| 9. | Redemption of preference shares. | 10. | Cash purchases. | | |
| 11. | Proceeds from sale of non-current investment. | 12. | Purchase of goodwill. | | |
| 13. | Cash paid to supplier. | 14. | Interim dividend paid on equity shares. | | |
| | Employee benefits expenses paid. | | Proceeds from sale of patents. | | |
| | Interest received on debentures held as investments. | | Interest paid on long-term borrowings. | | |
| 19. | Office and administrative expenses paid. | 20. | Manufacturing overheads paid. | | |
| 21. | Dividend received on shares held as | 22. | Rent received on property held as | | |
| | investment. | | investment. | | |
| 23. | Selling and distribution expenses paid. | 24. | Income tax paid. | | |
| | Dividend paid on preferences shares. | 26. | | | |
| | Rent paid. | 28. | 9 | | |
| 29. | Bank overdraft. | | current investment. | | |
| 30. | Cash credit. | 31. | Short-term deposit. | | |
| 32. | Marketable securities. | 33. | Refund of income-tax received. | | |
| | | | | | |

6.6 Ascertaining Cash Flow from Operating Activities

Operating activities are the main source of revenue and expenditure in an enterprise. Therefore, the ascertainment of cash flows from operating activities need special attention.

As per AS-3, an enterprise should report cash flows from operating activities either by using :

• Direct method whereby major classes of gross cash receipts and gross cash payments are disclosed;

or

• Indirect method whereby net profit or loss is duly adjusted for the effects of (1) transactions of a non-cash nature, (2) any deferrals or accruals of past/future operating cash receipts, and (3) items of income or expenses associated with investing or financing cash flows. It is important to mention here that under indirect method, the starting point is net profit/loss before taxation and extra ordinary items as per Statement of Profit and Loss of the enterprise. Then this amount is for non-cash items, etc., adjusted for ascertaining cash flows from operating activities.

Accordingly, cash flow from operating activities can be determined using either the Direct method or the Indirect method. The direct method provides information which is useful in estimating future cash flows. But such information is not available under the indirect method. However, in practice, indirect method is mostly used by the companies for arriving at the net cash flow from operating activities. The Chapter deals with preparing cash flow statement using indirect method.

Proposed Dividend

As per AS-4, Contingencies and Events Occurring after the Balance Sheet Date, Proposed dividend is shown in the Notes to Accounts. It will be shown as contingent liability since it becomes a liability after it is declared (approved) by the shareholders. It will be accounted in the books of account after it is declared (approved) by the shareholders in the Annual General Meeting. Since, previous year's Proposed Dividend will be declared (approved) in the current year; previous year's Proposed Dividend will be accounted as dividend payable. Also, declared dividend is paid within 30 days of its declaration therefore; it will be paid within the same financial year.

Briefly, proposed dividend of previous year after declaration (approved) by the shareholders will be debited to surplus i.e., Balance in Statement of Profit and Loss. While preparing cash flow statement, previous year's proposed dividend will be added to Act Profit under operating activities and will be shown under financial activity.

6.6.1 Indirect Method

Indirect method of ascertaining cash flow from operating activities begins with the amount of net profit/loss. This is so because statement of profit and loss incorporates the effects of all operating activities of an enterprise. However, Statement of Profit and Loss is prepared on accrual basis (and not on cash basis). Moreover, it also includes certain non-operating items such as interest paid, profit/loss on sale of fixed assets, etc.) and non-cash items (such as depreciation, goodwill written-off, divident declared, etc. Therefore, it becomes necessary to adjust the amount of net profit/loss as shown by Statement of Profit and Loss for arriving at cash flows from operating activities. Let us look at the example :

Statement of Profit and Loss Account for the year ended March 31, 2017

| | Particulars | Note | Figures in |
|------|-----------------------------|------|------------|
| | | | (Rs.) |
| i) | Revenue from Operations | | 1,00,000 |
| ii) | Other Income | 1 | 2,000 |
| iii) | Total Revenues (i+ii) | • | 1,02,000 |
| iv) | Expenses | | |
| | Cost of Materials Consumed | | 30,000 |
| | Purchases of stock-in-trade | | 10,000 |
| | Employees Benefits Expenses | | 10,000 |
| | Finance Costs | | 5,000 |
| | Depreciation | | 5,000 |
| | Other Expenses | | 12,000 |
| | | | 72,000 |
| v) | Profit before Tax (iii-iv) | | 30,000 |

Note: Other income includes profit on sale of land.

The above Statement of Profit and Loss shows the amount of net profit of Rs. 30,000. This has to be adjusted for arriving cash flows from operating activities. Let us take various items one by one.

- 1. Depreciation is a non-cash item and hence, Rs. 5,000 charged as depreciation does not result in any cash flow. Therefore, this amount must be added back to the net profit.
- 2. Finance costs of Rs. 5,000 is a cash outflow on account of financing activity. Therefore, this amount must also be added back to net profit while calculating cash flows from operating activities. This amount of finance cost will be shown as an outflow under the head of financing activities.

3. Other income includes profit on sale of land: It is cash inflow from investing activity. Hence, this amount must be deducted from the amount of net profit while calculating cash flows from operating activities.

The above example gives you an idea as to how various adjustments are made in the amount of net profit/loss. Other important adjustments relate to changes in working capital which are necessary (i.e., items of current assets and current liabilities) to convert net profit/loss which is based on accrual basis into cash flows from operating activities. Therefore, the increase in current assets and decrease in current liabilities are deducted from the operating profit, and the decrease in current assets and increase in current liabilities are added to the operating profit so as to arrive at the exact amount of net cash flow from operating activities.

As per AS-3, under indirect method, net cash flow from operating activities is determined by adjusting net profit or loss for the effect of:

- Non-cash items such as depreciation, goodwill written-off, provisions, deferred taxes, etc., which are to be added back.
- All other items for which the cash effects are investing or financing cash flows. The treatment of such items depends upon their nature. All investing and financing incomes are to be deducted from the amount of net profits while all such expenses are to be added back. For example, finance cost which is a financing cash outflow is to be added back while other income such as interest received which is investing cash inflow is to be deducted from the amount of net profit. Dividend declared is a financial activity and is therefore added back to net profit and shown as out flow under financial activity.
- Changes in current assets and liabilities during the period. Increase in current assets and decrease in current liabilities are to be deducted while increase in current liabilities and decrease in current assets are to be added up.

Exhibit 6.4 shows the proforma of calculating cash flows from operating activities as per indirect method.

| | • | |
|---|---|-----|
| | Cash Flows from Operating Activities (Indirect Method) | |
| I | Net Profit/Loss before Tax and Extraordinary Items | |
| + | Deductions already made in Statement of Profit and Loss on account of | XXX |
| | Non-cash items such as Depreciation, Goodwill to be Written-off. | |
| + | Deductions already made in Statement of Profit and Loss on Account of | XXX |
| | Non-operating items such as Interest. | |
| - | Additions (incomes) made in Statement of Profit and Loss on | XXX |
| | Account of Non-operating items such as Dividend received, | XXX |
| | Profit on sale of Fixed Assets. | |

| Operating Profit before Working Capital changes | | |
|---|-----|--|
| Add: in case of increase in current assets (other than cash and cash | xxx | |
| equivalent) and decrease in current liabilities. | | |
| Less: in case of decrease in current assets (other than cash and cash | xxx | |
| equivalent) and decrease in current liabilities. | | |
| Cash Flows from Operation Activities before Tax and Extraordinary items | xxx | |
| – Income Tax Paid | xxx | |
| +/- Effects of Extraordinary Items | XXX | |
| Net Cash from Operating Activities | xxx | |

Exhibit 6.4: Proforma of Cash Flows from Operating Activities (Indirect Method)

As stated earlier, while working out the cash flow from operating activities, the starting point is the 'Net profit before tax and extraordinary items' and not the 'Net profit as per Statement of Profit and Loss'. Income tax paid is deducted as the last item to arrive at the net cash flow from operating activities.

Illustration 2

Using the data given in Illustration 1, calculate cash flows from operating activities using indirect method.

Solution:

Cash Flows from Operating Activities

| Particulars | (Rs.) |
|---|----------|
| (Net Profit before Taxation and Extraordinary Items (Note 1) Adjustments for– | 42,000 |
| + Depreciation | 20,000 |
| = Operating Profit before working capital changes | 62,000 |
| - Increase in Trade Receivables | (3,000) |
| - Increase in Inventories | (5,000) |
| - Increase in Prepaid Insurance | (500) |
| - Decrease in Trade Payables | (2,000) |
| + Increase in Outstanding Employees Benefits Expenses | +1,000 |
| = Cash generated from Operations | 52,500 |
| - Income tax paid | (11,000) |
| = Net cash from Operating Activities | 41,500 |
| | |

You will notice that the amount of cash flows from operating activities are the same whether we use direct method or indirect method for its calculation.

Working Notes:

The net profit before taxation and extraordinary items has been worked out as under:

Net Profit = Rs. 32,000 + Income Tax = Rs. 10,000 = Net Profit before Tax and Extraordinary Items = Rs. 42,000

Illustration 3

Calculate cash flows from operating activities from the following information.

Statement of Profit and Loss for the year ended March 31, 2020

| Particulars | Note No. | Amount |
|--|----------|--------|
| | | (Rs.) |
| i) Revenue from Operations | | 60,000 |
| ii) Other Income | 1 | 5,000 |
| iii) Total Revenue (i+ii) | | 65,000 |
| iv) Expenses | | |
| Cost of materials consumed | | 15,000 |
| Employees benefits expenses | | 10,000 |
| Depreciation and Amortisation expenses | 2 | 7,000 |
| Other expenses | 3 | 13,000 |
| | | 45,000 |
| v.) Profit before tax (iii-iv) | | 20,000 |
| vi) Provision for taxation | | 8,000 |
| vii) Profit after tax (v-vi) | | 12,000 |

Notes to Accounts Note 1: Other Income

| Particulars | | Amount |
|------------------------|-------|--------|
| | | (Rs.) |
| Profit on Sale of Mach | inery | 2,000 |
| Income Tax Refund | Ý O | 3,000 |
| | | 5,000 |

Note 2: Depreciation and Amortization expenses

| Particulars | Amount |
|--------------------|--------|
| | (Rs.) |
| Depreciation | 5,000 |
| Goodwill Amortised | 2,000 |
| | 7,000 |

Note 3: Other expenses

| Particulars | Amount |
|---------------------------|--------|
| | (Rs.) |
| Rent | 10,000 |
| Loss on sale of equipment | 3,000 |
| | 13,000 |

Additional Information

| | March 31, 2019 | March 31, 2020 |
|------------------------|----------------|----------------|
| Provision for taxation | 10,000 | 13,000 |
| Rent payable | 2,000 | 2,500 |
| Trade payable | 21,000 | 25,000 |
| Trade receivables | 15,000 | 21,000 |
| Inventories | 25,000 | 22,000 |

Solution

Cash Flow from Operating Activities

| Particulars | Amount |
|--|---------|
| | (Rs.) |
| Net Profit before Taxation and Extraordinary items | 17,000 |
| Adjustment for Non Cash and Non Operating items: | |
| Depreciation | 5,000 |
| Goodwill amortised | 2,000 |
| Loss on Sale of Equipment | 3,000 |
| | 27,000 |
| Less-Profit on Sale of Machinery | (2,000) |
| Operating Profit before Working Capital Changes | 25,000 |
| Adjustment for Working Capital Charges | |
| Decrease in Inventories | 3,000 |
| Decrease in Rent Payable | 500 |
| Increase in Trade Payable | 4,000 |
| | 32,500 |
| Less-Increase in Trade Receivable | (6,000) |
| Cash generation from Operation | 26,500 |
| Income Tax Paid | (5,000) |
| Income Tax Refund | 3,000 |
| Net Cash Inflow from Operating Activities | 24,500 |

1. Working Notes:

Net Profit before Tax and Extraordinary items:

| Net Profit after Tax | 12,000 |
|-----------------------------|---------|
| Provision for Taxation made | 8,000 |
| | 20,000 |
| Less-Income tax refund | (3,000) |
| | 17,000 |
| | |

2. Income tax paid during the year has been ascertained by preparing provision for Taxation accout as follows:

Provision for Taxation Account

| Dr. | | | | | Cr. |
|------------------|------|--------|---------------------|------|--------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Bank | | | Balance b/d | | 10,000 |
| (Income Tax paid | | 5,000 | Statement of Profit | | 8,000 |
| during the year | | | and loss | | |
| Banalce c/d | | 13,000 | | | |
| | | 18,000 | | | 18,000 |
| | | | | | |

Illustration 4

Charles Ltd.,made a profit of Rs. 1,00,000 after charging depreciation of Rs. 20,000 on assets and a transfer to general reserve of Rs. 30,000. The goodwill amortised was Rs. 7,000 and gain on sale of machinery was Rs. 3,000. Other information available to you (changes in the value of current assets and current liabilities) are trade receivables showed an increase of Rs. 3,000; trade payables an increase of Rs. 6,000; prepaid expenses an increase of Rs. 200; and outstanding expenses a decrease of Rs. 2,000. Ascertain cash flow from operating activities.

| Additional Information: | March 31, 2017 | March 31, 2016 |
|---|----------------|----------------|
| | (Rs.) | (Rs.) |
| Trade Receivables | 20,00,000 | 40,00,000 |
| Trade Payables | 20,00,000 | 10,00,000 |
| Other Expenses payable (administrative) | 10,000 | 20,000 |
| Prepaid Administrative Expenses | 20,000 | 10,000 |
| Outstanding Trading Expenses | 20,000 | 40,000 |
| Advance Trading Expenses | 40,000 | 20,000 |
| Provision for Taxation | 10,00,000 | 12,00,000 |

Ascertain Cash from Operations. Show your workings clearly.

Solution:

Cash Flows from Operating Activities

| Particulars | (Rs.) |
|--|----------|
| Net Profit before Taxation | 1,30,000 |
| Adjustment for Non-cash and Non-operating Items : | |
| + Depreciation | 20,000 |
| + Goodwill amortised | 7,000 |
| Gain on sale of machinery | (3,000) |
| Operating profit before working capital | 1,54,000 |
| Adjustment for working capital charges : | |
| Increase in Trade receivables | (3,000) |
| + Increase in Trade payables | 6,000 |
| Increase in Prepaid expenses | (200) |
| Decrease in Outstanding expenses | (2,000) |
| = Net Cash from Operating Activities | 1,54,800 |

Notes to Accounts

Note 1: Revenue from Operations

| (Rs.) |
|------------|
| (113.) |
| 8,00,000 |
| 34,00,000 |
| 42,00,000 |
| (2,00,000) |
| 40,00,000 |
| |

Note 2: Other Income

| Particulars | Amount |
|----------------------------------|-----------|
| ~ () | (Rs.) |
| Trading commission | 20,40,000 |
| Discount received from suppliers | 60,000 |
| | 21,00,000 |
| | |

Note 3: Cost of Material Consumed

| Particulars | Amount |
|--|------------|
| | (Rs.) |
| Cost of Material consumed paid in cash | 4,00,000 |
| Cost of Material consumed paid in credit | 17,00,000 |
| | 21,00,000 |
| Less:- Returns | (1,00,000) |
| | 20,00,000 |

Note 4: Changes in Inventories of Finished Goods

| Particulars | Amount |
|--|------------|
| | (Rs.) |
| Opening Inventories of finished goods | 2,00,000 |
| Less-closing inventories of finished goods | (1,00,000) |
| | 1,00,000 |

Note 5: Depreciation and Amortization eExpenses

| Particulars | Amount |
|--------------------|----------|
| | (Rs.) |
| Depreciation | 3,20,000 |
| Goodwill Amortised | 60,000 |
| | 3,80,000 |
| | |

Note 6: Other Expenses

| Particulars | 1.5 | Amount (Rs.) |
|---|----------|---|
| Administrative expenses Discount allowed to customers Bad debts | CEL 1101 | 10,20,000 1,20,000 1,00,000 12,40,000 |

Test vour Understanding - II

| | Test your onderstanding - II |
|-----|---|
| 1. | Choose one of the two alternatives given below and fill in the blanks in the following statements: |
| (a) | If the net profits earned during the year is Rs. 50,000 and the amount of debtors in the beginning and the end of the year is Rs. 10,000 and Rs. 20,000 respectively, then the cash from operating activities will be equal to Rs (Rs. 40,000/Rs. 60,000) |
| (b) | |
| (c) | Expenses paid in advance at the end of the year are the profit made during the year (added to/deducted from). |
| (d) | An increase in accrued income during the particular year is the net profit (added to/deducted from). |
| (e) | Goodwill amortised is the profit made during the year for calculating the cash flow from operating activities (added to/ deducted from). |
| (f) | For calculating cash flow from operating activities, provision for doubtful debts is the profit made during the year (added to/deducted from) |

2. While computing cash from operating activities, indicate whether the following items will be added or subtracted from the net profit- if not to be considered, write NC

Items: Treatment

- (a) Increase in the value of creditors
- (b) Increase in the value of patents
- (c) Decrease in prepaid expenses
- (d) Decrease in income received in advance
- (e) Decrease in value of inventory
- (f) Increase in share capital
- (g) Increase in the value of trade receivables
- (h) Increase in the amount of outstanding expenses
- (i) Conversion of debentures into shares
- (j) Decrease in the value of trade payables
- (k) Increase in the value of trade receivables
- (l) Decrease in the amount of accrued income.

Sometimes, neither the amount of net profit is specified nor the Statement of profit and loss is given. In such a situation, the amount of net profit can be worked out by comparing the balances of Statement of Profit and Loss given in the comparative balance sheets for two years. The difference is treated as the net profit for the year; and, then, by adjusting it with the amount of provision for tax made during the year (as worked out by comparing the provision for tax balances of two years given in balance sheets), the amount of 'Net Profit before tax' can be ascertained (see Illustration 7 and 8).

6.7 Ascertainment of Cash Flow from Investing and Financing Activities

The details of item leading inflows and outflows from investing and financing activities have already been outlined. While preparing the cash flow statement, all major items of gross cash receipts, gross cash payments, and net cash flows from investing and financing activities must be shown separately under the headings 'Cash Flow from Investing Activities' and 'Cash Flow from Financing Activities' respectively.'

The ascertainment of net cash flows from investing and financing activities have been briefly dealt with in Illustrations 5 and 6.

Illustration 5

Welprint Ltd. has given you the following information:

| | RS. |
|--------------------------------|--------|
| Machinery as on April 01, 2016 | 50,000 |
| Machinery as on March 31, 2017 | 60,000 |

Accumulated Depreciation on April 01, 2016 25,000 Accumulated Depreciation on March 31, 2017 15,000

During the year, a Machine costing Rs. 25,000 with Accumulated Depreciation of Rs. 15.000 was sold for Rs. 13.000.

Calculate cash flow from Investing Activities on the basis of the above information.

Solution:

Cash Flows from Investing Activities

Sale of Machinery

Purchase of Machinery

Net cash used in Investing Activities

Rs.

(35,000)

(22,000)

Working Notes:

Machinery Account

| Dr. | | | | | Cr. |
|------------------------------|------|--------|-----------------------|------|--------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Balance b/d | | | Cash (proceeds | | |
| Statement of Profit and Loss | | | from sale of machine) | | 13,000 |
| (profit on sale of machine) | | 3,000 | Accumulated | | |
| Cash (balancing figure:new | | | Depreciation | | 15,000 |
| machinery purchased) | | 35,000 | Balance c/d | | 60,000 |
| | • | 88,000 | .0.7 | | 88,000 |
| | l | | | | |

Accumulated Depreciation Account

| Dr. | | | | | Cr. |
|-------------|------|----------|------------------------------|------|--------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Machinery | | 15,000 | Balance b/d | | 25,000 |
| Balance c/d | | 15,000 | Statement of Profit and Loss | | 5,000 |
| | | | (Depreciation provided | | |
| | | | during the year) | | |
| | | 30,000 | | | 30,000 |
| |) | — | 1 | | |

Illustration 6

From the following information, calculate cash flows from financing activities:

April 1, March 31, 2016 2017 Rs. Rs. 2,00,000 2,50,000

Long-term Loans

During the year, the company repaid a loan of Rs. 1,00,000.

Solution:

Cash flows from Financing Activities

| Proceeds from long-term borrowings | 1,50,000 |
|---|------------|
| Repayment of long-term borrowings | (1,00,000) |
| Net cash inflow from Financing Activities | 50,000 |

Working Notes:

Long-term Loan Account

| Dr. | | | | | Cr. |
|-----------------------------------|------|----------|---------------------------------------|------|----------------------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Cash (loan repaid) Balance c/d | | | Balance b/d Cash (new loan raised) | | 2,00,000 1,50,000 |
| | | 3,50,000 | | | 3,50,000 |

Do it Yourself

1. From the following particulars, calculate cash flows from investing activities:

| | Purchased | Sold |
|-------------|-----------|----------|
| | Rs. | Rs. |
| Plant | 4,40,000 | 50,000 |
| Investments | 1,80,000 | 1,00,000 |
| Goodwill | 2,00,000 | |
| Patents | | 1.00.000 |

Interest received on debentures held as investment Rs. 60,000

Dividend received on shares held as investment Rs. 10.000

A plot of land had been purchased for investment purposes and was let out for commercial use and rent received Rs. 30,000.

2. From the following Information, calculate cash flows from investing and financing activities:

| Particulars | 2016 | 2017 |
|--------------------------|-----------|-----------|
| | | |
| Machine at cost | 5,00,000 | 9,00,000 |
| Accumulated Depreciation | 3,00,000 | 4,50,000 |
| Equity Shares Capital | 28,00,000 | 35,00,000 |
| Bank Loan | 12,50,000 | 7,50,000 |

In year 2017, machine costing Rs. 2,00,000 was sold at a profit of Rs. 1,50,000, Depreciation charged on machine during the year 2015 amounted to Rs. 2,50,000.

6.8 Preparation of Cash Flow Statement

As stated earlier cash flow statement provides information about change in the position of Cash and Cash Equivalents of an enterprise, over an accounting period. The activities contributing to this change are classified into operating. investing and financing. The methology of working out the net cash flow (or use) from all the three activities for an accounting period has been explained in details and a brief format of Cash Flow Statement has also been given in Exhibit 6.2. However, while preparing a cash flow statement, full details of inflows and outflows are given under these heads including the net cash flow (or use). The aggregate of the net 'cash flows (or use) is worked out and is shown as 'Net Increase/Decrease in cash and Cash Equivalents' to which the amount of 'cash and cash equivalent at the beginning' is added and thus the amount of 'cash and cash equivalents at the end' is arrived at as shown in Exhibit 6.2. This figure will be the same as the total amount of cash in hand. cash at bank and cash equivalents (if any) given in the balance sheet (see Illustrations 7 to 10). Another point that needs to be noted is that when cash flows from operating activities are worked out by an indirect method and shown as such in the cash flow statement, the statement itself is termed as 'Indirect method cash flow statement'. Thus, the Cash flow statements prepared in Illustrations 7, 8 and 9 fall under this category as the cash flows from operating activities have been worked out by indirect method. Similarly, if the cash flows from operating activities are worked by direct method while preparing the cash flow statement, it will be termed as 'direct method Cash Flow Statement'. Illustration 10 shows both types of Cash Flow Statement. However, unless it is specified clearly as to which method is to be used, the cash flow statement may preferably be prepared by an indirect method as is done by most companies in practice.

Illustration 7

From the following information, prepare Cash Flow Statement for Pioneer Ltd.

Balance Sheet of Pioneer Ltd., as on March 31, 2017

| Particulars | | Amount | Amount |
|--|---|-----------|----------|
| | | (Rs.) | (Rs.) |
| I. Equity and Liabilities | | | |
| 1. Shareholders' Funds | | | |
| a) Share capital | 1 | 7,00,000 | 5,00,000 |
| b) Reserve and surplus | 2 | 4,20,000 | 2,50,000 |
| 2. Non-current Liabilities | | | |
| Long-term borrowings: 10% Bank Load | | 50,000 | 1,00,000 |
| 3. Current Liabilities | | | |
| a) Trade Payables | | 45,000 | 50,000 |
| b) Other current liabilities: outstanding rent | | 7,000 | 5,000 |
| c) Short-term provisions | 3 | 50,000 | 30,000 |
| Total | | 12,72,000 | 9,35,000 |

| II. Assets | | |
|------------------------------|-----------|----------|
| 1. Non-current assets | | |
| a) Fixed assets | | |
| i) Tangible assets | 5,00,000 | 5,00,000 |
| ii) Intangible assets | 95,000 | 1,00,000 |
| b) Non-current investments | 1,00,000 | - |
| 2. Current assets | | |
| a) Inventories | 1,30,000 | 50,000 |
| b) Trade receivables | 1,20,000 | 80,000 |
| c) Cash and cash equivalents | 3,27,000 | 2,05,000 |
| Total | 12,72,000 | 9,35,000 |

Notes to Accounts:

| Par | rticulars | 31st March | 31st March |
|-----|--|------------|------------|
| Tai | ticulars | 2017 (Rs.) | 2016 (Rs.) |
| _ | 7 " 1 0 " 1 | ` / | ` ′ |
| 1. | Equity share Capital | 7,00,000 | 5,00,000 |
| 2. | Reserve and Surplus | | |
| | Surplus: i.e., Balance in Statement of Profit and Loss | 4,20,000 | 2,50,000 |
| 3. | Short-term Provision | . 63 | |
| | Provision for Taxation | 50,000 | 30,000 |
| 4. | Fixed Assets | | |
| | Tangible assets |) · | |
| | (i) Equipments | 2,30,000 | 2,00,000 |
| | (ii) Furniture | 2,70,000 | 3,00,000 |
| | | 5,00,000 | 5,00,000 |
| 5. | Intangible Assets | | |
| | Patents | 95,000 | 1,00,000 |
| 6. | Cash and Cash Equivalents | | |
| | (i) Cash | 27,000 | 5,000 |
| | (ii) Bank Balance | 3,00,000 | 2,00,000 |
| | | 3,27,000 | 2,05,000 |

Additional Information

During the year, equipment costing Rs. 80,000 was purchased. Loss on sale of equipment amounted to Rs. 5,000. Depreciation of Rs. 15,000 and Rs. 3,000 charged on equipments and furniture. Loan Rs. 50,000 was repaid on 31.03.2017. Proposed dividend for the year 2015-16 was Rs. 50,000.

Solution

| Particulars | (Rs.) |
|--|----------|
| 1. Cash flows from Operating Activities: Net Profit before taxation & extraordinary items Provision for: | 2,70,000 |
| Depreciation on equipment | 15,000 |

| Depreciation on furniture | 30,000 |
|---|------------|
| Patents written-off | 5,000 |
| Loss on sale of equipments | 5,000 |
| Interest on bank load | 10,000 |
| Operating Profit before Working capital changes | 3,35,000 |
| - Decrease in trade payables | (5,000) |
| + Increase in outstanding rent | 2,000 |
| - Increase in trade receivables | (40,000) |
| - Increase in inventories | (80,000) |
| Cash generated from operating activities | 2,12,000 |
| (-) Tax paid | (30,000) |
| A. Cash Inflows from Operating Activities | 1,82,000 |
| II. Cash flows from Investing Activities | |
| Proceeds from sale of equipments | 30,000 |
| Purchase of new equipment | (80,000) |
| Purchase of investments | (1,00,000) |
| B. Cash used in Investing Activities | (1,50,000) |
| III. Cash flows from Financial Activities | |
| Issues of equity share capital | 2,00,000 |
| Repayment of bank loan | (50,000) |
| Payment of dividend | (50,000) |
| Payment of Interest on bank load | (10,000) |
| C. Cash Inflows from Financing Activities | 90,000 |
| Net increase in cash & cash equipments (A+B+C) | 1,22,000 |
| + Cash and Cash Equivalents in the beginning | 2,05,000 |
| Cash and Cash Equivalents in the end | 3,27,000 |

Working Notes:

(1) Equipment Account

Dr.

| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
|-------------|------|----------|----------------------------|------|----------|
| | _ | (Rs.) | | | (Rs.) |
| Balance b/d | | 2,00,000 | Depreciation | | 15,000 |
| Cash | | 80,000 | (balance figure) | | |
| | | | Bank | | 30,000 |
| | | | Statement of Profit & Loss | | 5,000 |
| | | | (Loss on sale) | | |
| | | | Balance c/d | | 2,30,000 |
| | | 2,80,000 | | | 2,80,000 |

(2) Patents of Rs. 5,000 (i.e., Rs. 1,00,000-Rs. 95,000) were written-off during the year, and depreciation on furniture was Rs. 30,000. (Rs. 3,00,000-Rs. 2,70,000)

(3) It is assumed that dividend of Rs. 50,000 and tax of Rs. 30,000 provided in 2015-2016 has been paid during the year 2016-17. Hence, proposed dividend and provision for tax during the year amounts to Rs. 70,000 and Rs. 50,000 respectively.

(4) Rs.

| Profit and Loss at the end | 4,20,000 |
|--|------------|
| (-) Profit and Loss in the beginning | (2,50,000) |
| Net Profit during the year | 1,70,000 |
| + Provision of tax during the year | 50,000 |
| + Proposed dividend | 50,000 |
| Net Profit before taxation & extraordinary items | 2,70,000 |

Illustration 8

From the following Balance Sheets of Xerox Ltd., prepare cash flow statement.

| Note | | 31st March |
|------|------------|--|
| No. | 2017 (Rs.) | 2016 (Rs.) |
| | | |
| | | |
| | 15,00,000 | 10,00,000 |
| | 7,50,000 | 6,00,000 |
| | | |
| | | |
| 1 | 1,00,000 | 2,00,000 |
| | | |
| | | 1,10,000 |
| | 95,000 | 80,000 |
| | | |
| | 25,45,000 | 19,90,000 |
| | | |
| | | |
| | | |
| 2 | | |
| | | 2,00,000 |
| | 6,00,000 | - |
| | | |
| | | 1,00,000 |
| | · ' ' | |
| 3 | | |
| | 25,45,000 | 19,90,000 |
| | No. | No. 2017 (Rs.) 15,00,000 7,50,000 1 1,00,000 95,000 2 10,10,000 1,80,000 6,00,000 3 3,75,000 |

Notes to Accounts:

| Particulars | | 31st March | 31st March |
|------------------------------|-----|------------|------------|
| | | 2017 (Rs.) | 2016 (Rs.) |
| 1. Long-term borrowings: | | | |
| i) 9% Debentures | | | 2,00,000 |
| ii) 5% Bank loan | | 1,00,000 | |
| | [| 1,00,000 | 2,00,000 |
| 2. Tangible Assets | | | |
| i) Land and building | | 6,50,000 | 8,00,000 |
| ii) Plant and machinery | | 3,60,000 | 4,00,000 |
| | | 10,10,000 | 12,00,000 |
| 3. Cash and cash equivalents | l f | | |
| i) Cash in hand | | 70,000 | 50,000 |
| ii) Bank balance | l L | 3,05,000 | 2,90,000 |
| | | 3,75,000 | 3,40,000 |
| | ı | | |

Additional information:

- 1. Proposed dividend 2016-17 is Rs. 2,25,000 and for 2015-16 is Rs. 1,50,000.
- 2. Income tax paid during the year includes Rs. 15,000 on account of dividend tax.
- 3. Land and building book value Rs. 1,50,000 was sold at a profit of 10%.
- 4. The rate of depreciation on plant and machinery is 10%.
- 5. 9% debentures redeemed on April 2017, 5% bank loan was opted on March 31, 2017.

Solution:

Cash Flow Statement

| | Particulars | (Rs.) |
|-----|---|--|
| I. | Cash flows from Operating Activities Net Profit before Taxation and Extraordinary Items Adjustment for – + Depreciation + Goodwill written-off - Profit on Sale of Land | 3,95,000 40,000 20,000 (15,000) |
| | Operating Profit before working capital changes Decrease in Trade Payables Increase in Trade Receivables Increase in Inventories | 4,40,000 (10,000) (50,000) (80,000) |
| | = Cash generated from Operations- Income Tax Paid (1) | 3,00,000 (65,000) |
| | A. Cash Inflows from Operations | 2,35,000 |
| II. | Cash flows from Investing Activities | |
| | Proceeds from Sale of Land and Building Purchase of Investment | 1,65,000 (6,00,000) |
| | B. Cash used in Investing Activities | 4,35,000 |

| III. Cash flows from Financing Activities | |
|---|----------|
| Proceeds from issue of Equity Share Capital | 5,00,000 |
| Redemption of Debentures | 2,00,000 |
| Proceeds from raising Bank Loan | 1,00,000 |
| Dividend Paid | 1,50,000 |
| Dividend Distribution Tax Paid | 15,000 |
| C. Cash flows from Financing Activities | 2,35,000 |
| Net Increase in cash and cash equivalents (A+B+C) | 35,000 |
| + Cash and Cash Equivalents in the beginning | 3,40,000 |
| Cash and Cash Equivalent at the end | 3,75,000 |

Working Notes:

(1) Total tax paid during the year

Rs. 80,0000

(-) Dividend Distribution tax paid (given)

Rs. (15,000)

Income tax paid for operating activities

Rs. 65,000

- (2) Net profit earned during the year after tax and dividend
 - = Rs. 7,50,000 6,00,000 = Rs. 1,50,000
- (3) Net profit before tax
 - Net profit earned during the year after tax and dividend + Provision for tax made + Declared Dividend
 - = Rs. 1,50,000 + Rs. 95,000 (See provision for taxation)+ Rs. 1,50,000
 - = Rs. 3,95,000

Equity Share Capital Account

| Dr. | | | | | Cr. |
|-------------|------|-----------|---|------|-----------------------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Balance c/d | | 15,00,000 | Balance b/d Cash (New capital raised) | | 10,00,000 5,00,000 |
| | X | 15,00,000 | | | 15,00,000 |
| | | | 1 | | |

Debenture Account

| | | | | Cr. |
|------|--------|-----------------|------|--------------------------|
| J.F. | Amount | Particulars | J.F. | Amount |
| | (Rs.) | | | (Rs.) |
| | 20,000 | Balance b/d | | 20,000 |
| | 20,000 | | | 20,000 |
| | J.F. | (Rs.) 20,000 | | (Rs.) 20,000 Balance b/d |

Bank Account

| Dr. | | | | | Cr. |
|-------------|------|----------|-------------|------|----------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Balance c/d | | 1,00,000 | Cash | | 1,00,000 |
| | | 1,00,000 | | | 1,00,000 |

Provision for Taxation Account

| Dr. | | | | | Cr. |
|--|------|----------|--|------|------------------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Cash (Tax paid:which includes Rs. 15,000 as dividend Balance c/d | | | Balance b/d Statement of Profit and Loss (Provision made during the year) | | 80,000 95,000 |
| | | 1,75,000 | | | 1,75,000 |
| | 1 | | | ľ | |

Land and Building Account

| Dr. | | | | | Cr. |
|---|------|--------------------|---------------------|------|----------------------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Balance b/d Statement of Profit and Loss (Profit on sale) | | 8,00,000 15,000 | Cash Balance c/d | | 1,65,000 6,50,000 |
| | | 8,15,000 | | | 8,15,000 |

Proposed Dividend Account

| Dr. | 4 | | | | Cr. |
|-------------|------|----------|-------------|------|----------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Cash | | 1,50,000 | Surplus | | 1,50,000 |
| | | 1,50,000 | | | 1,50,000 |
| | | | | | |

Plant and Machinery Account

| Dr. | | | | | Cr. |
|-------------|------|----------|-----------------------------|------|--------------------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Balance b/d | | 4,00,000 | Depreciation Balance c/d | | 40,000 3,60,000 |
| | | 4,00,000 | | | 4,00,000 |
| | - 1 | | | 1 | |

Illustration 9

From the following information of Oswal Mills Ltd., prepare cash flow statement:

Balance Sheet of Oswal Mills as on 31st March, 2016 and 2017

| (Rupees in Lak | | | | | | |
|----------------------------------|------|------------|------------|--|--|--|
| Particulars | Note | 31st March | 31st March | | | |
| | No. | 2017 (Rs.) | 2016 (Rs.) | | | |
| I. Equity and Liabilities | | | | | | |
| 1. Shareholders' Funds | | | | | | |
| a) Share capital | 1 | 1,300 | 1,400 | | | |
| b) Reserve and surplus (Surplus) | | 4,700 | 4,000 | | | |
| 2. Current Liabilities | | | | | | |
| a) Short-term borrowings | | 200 | 600 | | | |
| b) Trade payables | | 500 | 400 | | | |
| Total | | 6,700 | 6,400 | | | |
| II. Assets | | | | | | |
| 1. Non-current assets | | | | | | |
| a) Fixed assets | 2 | 2,400 | 2.400 | | | |
| b) Non-current investments | | 300 | 200 | | | |
| 2. Current assets | | | | | | |
| a) Inventories | | 1,200 | 1,300 | | | |
| b) Trade receivables | | 800 | 900 | | | |
| c) Cash and cash equivalents | | 1,200 | 800 | | | |
| d) Short-term loans and advances | | 800 | 800 | | | |
| Total | | 6,700 | 6,400 | | | |

Notes to Accounts:

(Rupees in Lakhs)

| | ` 1 | , |
|-------------------------------|------------|------------|
| Particulars | 31st March | 31st March |
| | 2017 (Rs.) | 2016 (Rs.) |
| 1. Share capital | | |
| Equity share capital | 1,000 | 1,000 |
| 10% preference share capital | 300 | 400 |
| | 1,300 | 1,400 |
| 2. Fixed assets | | |
| Tangible assets | 3,600 | 3,400 |
| Less: Accumlated depreciation | (1,200) | (1,000) |
| | 2,400 | 2,400 |
| | | |

Statement of Profit and Loss for the year ended 31st March, 2017

(Rupees in Lakhs)

| | | (Fresp. | oo iii Baiiiio) |
|------------------------------------|------|------------|-----------------|
| Particulars | Note | 31st March | - |
| | No. | 2017 (Rs.) | |
| I. Revenue from operation | | 2,800 | - |
| II. Other income (dividend income) | | 1,000 | - |
| III. Total Revenue | | 3,800 | - |

| IV. Expenses | | - |
|------------------------------|-------|---|
| Cost of material consumed | 400 | - |
| Employees benefit expenses | 200 | - |
| Finance cost (interest paid) | 200 | - |
| Depreciation | 200 | - |
| Loss due to earthquake | 1,100 | - |
| | 2,100 | |
| V. Profit before tax | 1,700 | - |
| VI. Tax paid | 1,000 | - |
| Profit after tax | 700 | - |

Additional information:

- No dividend paid by the company during the current financial year.
 Out of fixed assets, land worth Rs. 1,000 Lakhs was sold at this amount.

Solution:

Cash Flow Statement

(Rupees in Lakhs)

| Particul | | (Rs.) |
|----------|---|---------|
| Cash | Flows from Operating Activities | 7 |
| Net | Profit before Tax and Extraordinary Items (1) | 2,800 |
| Adjı | ustment for Non-cash and Non-operating Items | |
| | + Interest paid | 200 |
| | + Depreciation | 200 |
| Ope | rating profit before working capital changes | 3,200 |
| Adjı | ustment for : | |
| | + Decrease in Inventories | 100 |
| | + Decrease in Trade Receivables | 100 |
| | + Increase in Trade Payables | 100 |
| Cash | generated from operations | 3,500 |
| | (–) Income Tax paid | (1,000) |
| Cash | Flow before Extraordinary items | 2,500 |
| | (-) Loss due to earthquake | (1,100) |
| A. | Net cash from Operating Activities | 1,400 |
| Cash | flows from Investing Activities | |
| | Sale of Land | 1,000 |
| | Purchase of fixed assets (2) | (1,200) |
| | Purchase of Investments | (100) |
| В. | Net cash from Investing Activities | (300) |

| Cash | flows from Financing Activities | |
|------|--|-------|
| | Payment of short-term loans | (400) |
| | Interest Paid | (200) |
| | Redemption of 10% preference share capital | (100) |
| C. | Net Cash used in Financing Activities | (700) |
| | Net increase in Cash and Cash Equivalents | 400 |
| | during the year (A+B+C) | |
| | + Cash and Cash Equivalents in the | 800 |
| | beginning of the year | |
| | = Cash and Cash Equivalents in the end | 1,200 |

Working Notes:

(Rupees in Lakhs)

(1) Net Profit before Tax and Extraordinary Items = Rs. 700 + Rs. 1,100 + Rs. 1,000 = Rs. 2,800

(2) Fixed Assets Account

Dr. Cr.

| DI. | | | | | CI. |
|---|------|--------|------------------------------------|------|----------------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Balance b/d Cash (Purchase of fixed assets) | | | Cash (Sale of land) Balance c/d | | 1,000 3,600 |
| | | 4,600 | | | 4,600 |
| | | | 1 | | |

Accumulated Depreciation Account

| Dr. | | | | | Cr. |
|-------------|------|--------|------------------------------|------|--------|
| Particulars | J.F. | Amount | Particulars | J.F. | Amount |
| | | (Rs.) | | | (Rs.) |
| Balance c/d | | | Balance b/d | | 1,000 |
| | X . | | Statement of Profit and Loss | 1 | 200 |
| | | 1,200 | | | 1,200 |
| | | | | l | |

Illustration 10From the following information of Banjara Ltd., prepare a cash flow statement: (Rupees in Lakhs)

| 31stMarch 2017 (Rs.) 1,500 3,410 1,110 | 31st March 2016 (Rs.) 1,250 1,380 1,040 |
|--|---|
| 1,500 3,410 | 1,250 1,380 |
| 1,500 3,410 | 1,250 1,380 |
| 3,410 | 1,380 |
| 3,410 | 1,380 |
| 3,410 | 1,380 |
| | |
| 1,110 | 1,040 |
| 1,110 | 1,040 |
| | |
| | |
| 1 | |
| 150 | 1,890 |
| 630 | 1,100 |
| 6,800 | 6,660 |
| | |
| | |
| 730 | 850 |
| 2,500 | 2,500 |
| | |
| 670 | 135 |
| 900 | 1,950 |
| 1,700 | 1,200 |
| | 25 |
| 200 | |
| | |
| 200 100 | |
| | |

Notes to Accounts:

| Particulars | 31st March 2017 (Rs.) | 31st March 2016 (Rs.) |
|--|--------------------------------|--------------------------------|
| Other Current Liabilities i) Interest payable ii) Income tax payable | 230 400 630 | 100 1,000 1,100 |
| 2. Fixed Assets: Tangible Less: Accumlated depreciation | 2,180 (1,450) 730 | 1,910 (1,060) 850 |

Statement of Profit and Loss for the year ended 31 March, 2017

(Rupees in Lakhs)

| Particulars | Note | 2017 March 31 |
|----------------------------------|------|------------------|
| | No. | (Rs.) |
| I. Revenue from operation | | 30,650 |
| II. Other income | 1 | 640 |
| III. Total Revenue | | 31,290 |
| IV. Expenses | | |
| Cost of material consumed | | 26,000 |
| Finance cost (interest expenses) | | 400 |
| Depreciation | | 450 |
| Other expenses | | 910 |
| (Admn. and selling expenses) | | |
| Total expenses | | 27,760 |
| Profit before tax | | 3,530 |
| Less: Tax | · | (300) |
| Profit after tax | | 3,230 |
| | | |

Notes to Accounts:

| Particulars | (Rs.) |
|---|-------|
| 1. Other Income during the year 2016-17 | |
| i) Interest Income | 300 |
| ii) Dividend Income | 200 |
| iii) Insurance Proceeds from earthquake disaster Settlement | 140 |

Additional Information:

(Rs. '000)

- (i) An amount of Rs. 250 was raised from the issue of share capital and a further Rs. 250 was raised from long-term borrowings.
- (ii) Interest expense was Rs. 400 of which Rs. 170 was paid during the period. Rs. 100 relating to interest expense of the prior period was also paid during the period.
- (iii) Dividends paid were Rs. 1,200.
- (iv) 10% loan of Rs. 70,00,000 was obtained in March 31, 2017
- (v) During the period, the enterprise acquired Fixed Assets for Rs. 350. The payment was made in cash.
- (vi) Plant with original cost of Rs. 80 and accumulated depreciation of Rs. 60 was sold for Rs. 20.
- (vii) Trade Receivables and Trade Payables include amounts relating to credit sales and credit purchases only.

Solution:

Cash Flow Statement

(Rs. '000)

| Particulars | (Rs.) |
|--|---------|
| Cash Flows from Operating Activities | |
| Net Profit before Taxation and Extraordinary Item | 3,390 |
| Adjustments for: | |
| + Depreciation | 450 |
| - Interest Income | (300) |
| – Dividend Income | (200) |
| + Interest Expense | 400 |
| Operating Profit before working capital changes | 3,740 |
| Increase in Trade Receivables | (500) |
| Decrease in Inventories | 1,050 |
| Decrease in Trade Payables | (1,740) |
| Cash generated from Operations | 2,550 |
| Income Tax paid | (900) |
| Cash flow before Extraordinary Items | 1,650 |
| Proceeds from earthquake disaster settlement | 140 |
| Net cash from Operating Activities | 1,790 |
| Cash Flows from Investing Activities | |
| Purchase of Fixed Assets | (350) |
| Proceeds from Sale of Equipment | 20 |
| Interest Received | 200 |
| Dividends Received (net of TDS) | 200 |
| Net cash from Investing Activities | 70 |
| Cash flows from Financing Activities | |
| Proceeds from issuance of Share Capital | 250 |
| Proceeds from Long-term Borrowings | 250 |
| Repayment of Long-term Borrowings | (180) |
| Interest Paid | (270) |
| Dividends Paid | (1,200) |
| Net Cash used in Financing Activities | (1,150) |
| Net Increase in Cash and Cash Equivalents | 710 |
| Cash and Cash Equivalents at the beginning of the period | 160 |
| Cash and Cash Equivalents at the end of the period | 870 |

Note: Cash flow statement is prepared from statement of profit and loss. Hence, dividend paid will be adjusted in financing activity only.

Working Notes:

(1) Cash and Cash Equivalents

Cash and Cash Equivalents consist of cash in hand and balances with banks, and investments in money-market instruments. Cash and Cash Equivalents included in the Cash Flow Statement comprise of the following balance sheet amounts.

| | | (Rs. '000) |
|--|---------------------------|-----------------------------|
| Cash in Hand and balances with Bank Short-term Investments | 2017 Rs. 200 670 | 2016 Rs. 25 135 |
| Cash and Cash Equivalents (2) Cash Receipts from Customers Sales Add: Trade Receivables at the beginning of the year | 30,650 1,200 31,850 | 160 |
| Less: Trade Receivables at the end of the year | (1,700) | |
| (3) Cash paid to Suppliers and Employees Cost of Revenue from operations Administrative and Selling Expenses | 30,150 | 26,000 910 26,910 |
| Add: Trade Payables at the beginning of the year Inventories at the end of the year | 1,890 900 | 2,790 |
| Less: Trade Payables at the end of the year Inventories at the beginning of the year | 150 1,950 | 29,700 (2,100) 27,600 |
| (4) Income Tax paid (including TDS from dividends received) Income Tax expense for the year (including tax deducted at source from dividends received) | ı | 300 |
| Add: Income Tax liability at the beginning of the year | | 1,000 |
| Less: Income tax payable at the end of the year | | 1,300 (400) |
| | | 900 |

| (5) | Repayment of Long-term Borrowings | |
|-----|--|---------|
| | Long-term Debts at the beginning of the year | 1,040 |
| | Add: Long-term Borrowings made during the year | 250 |
| | | 1,290 |
| | Less: Long-term Borrowings at the end of the year | (1,110) |
| | | 180 |
| (6) | Interest paid | |
| | Interest expense for the year | 400 |
| | Add: Interest Payable at the beginning of the year | 100 |
| | | 500 |
| | Less: Interest Payable at the end of the year | (230) |
| | | 270 |
| | | |

Terms Introduced in the Chapter

| 1. | Cash | 2. | Cash Equivalents |
|----|----------------------|----|----------------------|
| 3. | Cash Inflows | 4. | Cash Outflows |
| 5. | Non-cash item | 6. | Cash Flow Statement |
| 7. | Operating Activities | 8. | Investing Activities |

11. Extraordinary Items

Financing Activities

9.

Summary

10.

Accounting Standard-3

Cash Flow Statement: The Cash Flow Statement helps in ascertaining the liquidity of an enterprise. Cash Flow Statement is to be prepared and reported by Indian companies according to AS-3 notified as per Companies Act 2013. The cash flows are categorised into flows from operating, investing and financing activities. This statement helps the users to ascertain the amount and certainty of cash flows to be generated by company.

Questions for Practice

Short Answer Questions

- 1. What is a Cash flow statement?
- 2. How are the various activities classified (as per AS-3 revised) while preparing cash flow statement?
- 3. State the objectives of cash flow statement.
- 4. What are the objectives of preparing cash flow statement?
- 5. State the meaning of the terms: (i) Cash Equivalents, (ii) Cash flows.
- 6. Prepare a format of cash flow from operating activities.
- 7. State clearly what would constitute the operating activities for each of the following enterprises:
 - (i) Hotel
 - (ii) Film production house
 - (iii) Financial enterprise
 - (iv) Media enterprise
 - (v) Steel manufacturing unit
 - (vi) Software development business unit.
- 8. "The nature/type of enterprise can change altogether the category into which a particular activity may be classified." Do you agree? Illustrate your answer.

Long Answer Questions

- 1. Describe the procedure to prepare Cash Flow Statement.
- Describe "Indirect" method of ascertaining Cash Flow from operating activities.
- 3. Explain the major Cash Inflows and outflows from investing activities.
- 4. Explain the major Cash Inflows and outflows from financing activities.

Numerical Questions

1. Anand Ltd., arrived at a net income of Rs. 5,00,000 for the year ended March 31, 2017. Depreciation for the year was Rs. 2,00,000. There was a profit of Rs. 50,000 on assets sold which was transferred to Statement of Profit and Loss account. Trade Receivables increased during the year Rs. 40,000 and Trade Payables also increased by Rs. 60,000. Compute the cash flow from operating activities by the indirect approach.

[**Ans.:** Rs. 6,70,000]

2. From the information given below you are required to calculate the cash paid for the inventory:

| Particulars | (Rs.) |
|---------------------------------|----------|
| Inventory in the beginning | 40,000 |
| Credit Purchases | 1,60,000 |
| Inventory in the end | 38,000 |
| Trade payables in the beginning | 14,000 |
| Trade payables in the end | 14,500 |

[**Ans.:** Rs. 1.59.500]

- 3. For each of the following transactions, calculate the resulting cash flow and state the nature of cash flow, viz., operating, investing and financing.
 - (a) Acquired machinery for Rs. 2,50,000 paying 20% by cheque and executing a bond for the balance payable.
 - (b) Paid Rs. 2,50,000 to acquire shares in Informa Tech. and received a dividend of Rs. 50,000 after acquisition.
 - (c) Sold machinery of original cost Rs. 2,00,000 with an accumulated depreciation of Rs. 1,60,000 for Rs. 60,000.

[Ans.: (a) Rs. 50,000 investing activity (outflow); (b) Rs. 2,00,000 investing activity (outflow); (c) Rs. 60,000 investing activity (inflow)].

4. The following is the Profit and Loss Account of Yamuna Limited:

Statement of Profit and Loss of Yamuna Ltd., for the Year ended March 31, 2017

| | 101 the fear chaca maion 61, 2017 | | | |
|------|-----------------------------------|------|-----------|--|
| Par | ticulars | Note | Amount | |
| | | No. | (Rs.) | |
| i) | Revenue from Operations | | 10,00,000 | |
| ii) | Expenses | | | |
| | Cost of Materials Consumed | 1 | 50,000 | |
| | Purchases of Stock-in-trade | | 5,00,000 | |
| | Other Expenses | 2 | 3,00,000 | |
| | Total Expenses | | 8,50,000 | |
| iii) | Profit before tax (i-ii) | | 1,50,000 | |

Additional information:

- (i) Trade receivables decrease by Rs. 30,000 during the year.
- (ii) Prepaid expenses increase by Rs. 5,000 during the year.

- (iii) Trade payables increase by Rs. 15,000 during the year.
- (iv) Outstanding expenses payable increased by Rs. 3,000 during the year.
- (v) Other expenses included depreciation of Rs. 25,000.

Compute net cash from operations for the year ended March 31, 2017 by the indirect method.

[Ans.: Cash from operations Rs. 2,18,000].

- 5. Compute cash from operations from the following figures:
- (i) Profit for the year 2016-17 is a sum of Rs. 10,000 after providing for depreciation of Rs. 2,000.
- (ii) The current assets and current liabilities of the business for the year ended March 31, 2016 and 2015 are as follows:

| Particulars | March | March |
|------------------------------|----------|----------|
| | 31, 2016 | 31, 2017 |
| | (Rs.) | (Rs.) |
| Trade Receivables | 14,000 | 15,000 |
| Provision for Doubtful Debts | 1,000 | 1,200 |
| Trade Payables | 13,000 | 15,000 |
| Inventories | 5,000 | 8,000 |
| Other Current Assets | 10,000 | 12,000 |
| Expenses payable | 1,000 | 1,500 |
| Prepaid Expenses | 2,000 | 1,000 |
| Accrued Income | 3,000 | 4,000 |
| Income received in advance | 2,000 | 1,000 |

[Ans.: Cash from operations: Rs. 7,700].

6. From the following particulars of Bharat Gas Limited, calculate Cash Flows from Investing Activities. Also show the workings clearly preparing the ledger accounts:

Balance Sheet of Bharat Gas Ltd., as on 31 March, 2016 and 31 March 2017

| Particulars | Note | March 31 | March 31 |
|--|------|------------|------------|
| | No. | 2017 (Rs.) | 2016 (Rs.) |
| II) Assets 1. Non-current Assets a) Fixed assets i) Tangible assets ii) Intangible assets b) Non-current investments | 1 | 12,40,000 | 10,20,000 |
| | 2 | 4,60,000 | 3,80,000 |
| | 3 | 3,60,000 | 2,60,000 |

Notes: 1 Tangible assets = Machinery

2 Intangible assets = Patents

Notes to accounts:

| | March 31 | March 31 |
|----------------------------|-----------|-----------|
| | 2017 | 2016 |
| 1. Tangible Assets | | |
| Machinery | 12,40,000 | 10,20,000 |
| 2. Intangible Assets | | |
| Goodwill | 3,00,000 | 1,00,000 |
| Patents | 1,60,000 | 2,80,000 |
| | 4,60,000 | 3,80,000 |
| 3. Non-current Investments | | |
| 10% long term investments | 1,60,000 | 60,000 |
| Investment in land | 1,00,000 | 1,00,000 |
| Shares of Amartex Ltd. | 1,00,000 | 1,00,000 |
| | 3,60,000 | 2,60,000 |

Additional Information:

- (a) Patents were written-off to the extent of Rs. 40,000 and some Patents were sold at a profit of Rs. 20,000.
- (b) A Machine costing Rs. 1,40,000 (Depreciation provided thereon Rs. 60,000) was sold for Rs. 50,000. Depreciation charged during the year was Rs. 1,40,000.
- (c) On March 31, 2016, 10% Investments were purchased for Rs. 1,80,000 and some Investments were sold at a profit of Rs. 20,000. Interest on Investment was received on March 31, 2017.
- (d) Amartax Ltd., paid Dividend @ 10% on its shares.
- (e) A plot of Land had been purchased for investment purposes and let out for commercial use and rent received Rs. 30,000.

[**Ans.:** Rs. 5,24,000].

7. From the following Balance Sheet of Mohan Ltd., prepare cash flow Statement:

Balance Sheet of Mohan Ltd., as at 31st March 2016 and 31st March 2017

| Pa | rticulars | Note | March 31, | March 31, |
|----|---|------|------------|------------|
| | | No. | 2017 (Rs.) | 2016 (Rs.) |
| I) | Equity and Liabilities | | | |
| | Shareholders' Funds | | | |
| | a) Equity share capital | | 3,00,000 | 2,00,000 |
| | b) Reserves and Surplus | | 2,70,000 | 2,20,000 |
| | 2. Non-current liabilities | | | |
| | a) Long-term borrowings | 1 | 80,000 | 1,00,000 |
| | 3. Current liabilities | | | |
| | Trade payables | | 1,20,000 | 1,40,000 |
| | Total | | 7 70 000 | 6 60 000 |
| | Total | | 7,70,000 | 6,60,000 |

| II) Assets 1. Non-current assets Fixed assets 2. Current assets a) Inventories b) Trade receivables c) Cash and cash equivalents Total | 2 3 4 | 5,00,000 1,50,000 90,000 30,000 | 3,20,000 1,30,000 1,20,000 90,000 |
|--|-------|--|--|
| Notes to accounts: | | 7,70,000 | 6,60,000 |
| 1. Long-term borrowings | | 2017 | 2016 |

| 1 | I and town howavings | 2017 | 2010 |
|----|--------------------------------------|----------|----------|
| 1. | Long-term borrowings 9% Bank Loan | 80,000 | 1,00,000 |
| 2. | Fixed assets | 6,00,000 | 4,00,000 |
| | Less: Accumulated Depreciation | 1,00,000 | 80,000 |
| | (Net) Fixed Assets | 5,00,000 | 3,20,000 |
| 3. | Trade receivables | | |
| | Debtors | 60,000 | 1,00,000 |
| | Bills receivables | 30,000 | 20,000 |
| | | 90,000 | 1,20,000 |
| 4. | Cash and cash equivalents | | |
| | Bank | 30,000 | 90,000 |
| | | | |

Additional Information:

Machine Costing Rs. 80,000 on which accumulated depreciation was Rs. 50,000 was sold for Rs. 20,000. 9% bank loan Rs. 20,000 was repaid on March 31, 2017. Proposed dividend for the year 2015-16 was Rs. 60,000.

Rs. [Ans.: Cash flow from Operating Activities Cash flow from Investing Activities 2,60,000 Cash flow from Financing Activities 11,000].

8. From the following Balance Sheets of Tiger Super Steel Ltd., prepare Cash Flow Statement:

Balance Sheet of Tiger Super Steel Ltd. as at 31st March 2014 and 31st March 2017

| Particulars | Note No. | March 31, 2017 (Rs.) | March 31, 2016 (Rs.) |
|---------------------------|-------------|-------------------------|-------------------------|
| I) Equity and Liabilities | | | |
| Shareholders' Funds | | | |
| a) Share capital | 1 | 1,40,000 | 1,20,000 |
| b) Reserves and surplus | 2 | 38,400 | 26,400 |
| 2. Current Liabilities | | | |
| a) Trade payables | 2 | 21,200 | 14,000 |

| | | _ | |
|------------------------------|---|-------------|-------------|
| b) Other current liabilities | 3 | 2,400 | 3,200 |
| c) Short-term provisions | 4 | 12,800 | 11,200 |
| | | 2,14,800 | 1,74,800 |
| II) Assets | | | |
| 1. Non-Current Assets | | | |
| a) Fixed assets | | | |
| i) Tangible assets | 6 | 96,400 | 76,000 |
| ii) Intangible assets | | 18,800 | 24,000 |
| b) Non-current investments | | 14,000 | 4,000 |
| 2. Current Assets | | , , , , , , | , , , , , , |
| a) Inventories | | 31,200 | 34,000 |
| b) Trade receivables | | 43,200 | 30,000 |
| c) Cash and Cash Equivalents | | 11,200 | 6,800 |
| e, cash and cash Equivalents | | 2,14,800 | 1,74,800 |
| | | | |
| Notes to accounts: | | | |
| | | 2017 | 2016 |
| 1. Share Capital | | | |
| Equity share capital | | 1,20,000 | 80,000 |
| 10% Preference share capital | | 20,000 | 40,000 |
| • | | 1,40,000 | 1,20,000 |
| 2. Reserves and surplus | | | - |
| General reserve | | 12,000 | 8,000 |
| Balance in statement of | | 26,400 | 18,400 |
| profit and loss | | | |
| | | 38,400 | 26,400 |
| 3. Trade payables | | | |
| Bills payable | | 21,200 | 14,000 |
| 4. Other current liabilities | | | |
| Outstanding expenses | | 2,400 | 3,200 |
| 5. Short-term provisions | | | |
| Provision for taxation | | 12,800 | 11,200 |
| | | | |
| 6. Tangible assets | | | |
| Land and building | | 20,000 | 40,000 |
| Plant | | 76,400 | 36,000 |
| | | 96,400 | 76,000 |
| | | | |

Additional Information:

*Proposed dividend for 2016-17 is Rs. 15,600 and for 2015-16 is Rs. 11,200.

Depreciation Charged on Land & Building Rs. 20,000, and Plant Rs. 10,000 during the year. Proposed dividend for 2016-17 Rs. 15,600 and 2015-16 Rs. 11,200

| [Ans.: Cash flow from Operating Activities | Rs. | 56,000 |
|--|-----|---------|
| Cash flow from Investing Activities | Rs. | 60,400 |
| Cash flow from Financing Activities | Rs. | 8,800]. |

9. From the following information, prepare cash flow statement:

| Particulars | Note | 31stMarch | 31st March |
|------------------------------|------|------------|------------|
| Farticulars | | | |
| | No. | 2015 (Rs.) | 2014 (Rs.) |
| I. Equity and Liabilities | | | |
| 1. Shareholders' Funds | | | |
| a) Share capital | | 7,00,000 | 5,00,000 |
| b) Reserve and surplus | | 4,70,000 | 2,50,000 |
| 2. Non-current Liabilities | | | |
| (8% Debentures) | | 4,00,000 | 6,00,000 |
| 3. Current Liabilities | | | |
| Trade payables | | 9,00,000 | 6,00,000 |
| Total | | 24,70,000 | 19,50,000 |
| II. Assets | | | |
| 1. Non-current assets | | | |
| Fixed assets | | | |
| i) Tangible | | 7,00,000 | 5,00,000 |
| ii) Intangible–Goodwill | | 1,70,000 | 2,50,000 |
| 2. Current assets | | | _ |
| a) Inventories | | 6,00,000 | 5,00,000 |
| b) Trade Receivables | | 6,00,000 | 4,00,000 |
| c) Cash and cash equivalents | | 4,00,000 | 3,00,000 |
| Total | | 24,70,000 | 19,50,000 |

Additional Information:

Depreciation Charged on Plant amounted to Rs. 80,000.

Rs.

| [Ans.: Cash inflow from Operating Activities | 4,28,000 |
|--|----------|
| Cash inflow from Investing Activities | 2,80,000 |
| Cash inflow from Financing Activities | 48,000]. |

10. From the following Balance Sheet of Yogeta Ltd., prepare cash flow statement:

| Particulars | Note | 31st March | 31st March |
|----------------------------------|------|------------|------------|
| | No. | 2017 (Rs.) | 2016 (Rs.) |
| I. Equity and Liabilities | | | |
| 1. Shareholders' Funds | | | |
| a) Share capital | 1 | 4,00,000 | 2,00,000 |
| b) Reserve and surplus (Surplus) | | 2,00,000 | 1,00,000 |
| 2. Non-current Liabilities | | | |
| Long-term borrowings | 2 | 1,50,000 | 2,20,000 |
| 3. Current Liabilities | | | |
| a) Short-term borrowings | | 1,00,000 | |
| (Bank overdraft) | | | |
| b) Trade payables | | 70,000 | 50,000 |
| c) Short-term provision | | 50,000 | 30,000 |
| (Provision for taxation) | | | |
| Total | | 9,70,000 | 6,00,000 |

| II. Assets | | |
|------------------------------|----------|----------|
| 1. Non-current assets | | |
| Fixed assets | | |
| Tangible | 7,00,000 | 4,00,000 |
| 2. Current assets | | |
| a) Inventories | 1,70,000 | 1,00,000 |
| b) Trade Receivables | 1,00,000 | 50,000 |
| c) Cash and cash equivalents | | 50,000 |
| Total | 9,70,000 | 6,00,000 |

Notes to Accounts:

| Particulars | 31st March | 31st March |
|-----------------------------|----------------|------------|
| | 2017 (Rs.) | 2016 (Rs.) |
| 1. Share capital | | |
| a) Equity share capital | 3,00,000 | 2,00,000 |
| b) Preference share capital | 1,00,000 | |
| | 4,00,000 | 2,00,000 |
| 2. Long-term borrowings | | |
| 8% Long-term loan | | 2,00,000 |
| 9% Loan from Rahul | 1,50,000 | 20,000 |
| | 1,50,000 | 2,20,000 |
| | | |

Additional Information:

Net Profit for the year after charging Rs. 50,000 as Depreciation was Rs. 1,50,000. Dividend paid on Share was Rs. 50,000, Tax Provision created during the year amounted to Rs. 60,000. 8% loan was repaid on March 31, 2017 and an additional 9% loan of Rs. 1,30,000 was obtained from Rahul on April 01, 2016.

Rs.

[Ans.: Cash from Operating Activities 1,49,500
Cash from Investing Activities 13,50,000
Cash from Financing Activities 1,50,000].

11. Following is the Balance sheet of Garima Ltd., prepare cash flow statement.

| Particulars | Note | 31st March | 31st March |
|----------------------------------|------|------------|------------|
| | No. | 2017 (Rs.) | 2016 (Rs.) |
| I. Equity and Liabilities | | | |
| 1. Shareholders' Funds | | | |
| a) Share capital | 1 | 4,40,000 | 2,80,000 |
| b) Reserve and surplus (Surplus) | 2 | 40,000 | 28,000 |
| 2. Current Liabilities | | | |
| a) Trade payables | | 1,56,000 | 56,000 |
| b) Short-term provisions | | 12,000 | 4,000 |
| (Provision for taxation) | | | |
| Total | | 6,48,000 | 3,68,000 |

| II. Assets | | |
|--|----------|----------|
| 1. Non-current assets | | |
| Fixed assets | | |
| Tangible | 3,64,000 | 2,00,000 |
| 2. Current assets | | |
| a) Inventories | 1,60,000 | 60,000 |
| b) Trade receivables | 80,000 | 20,000 |
| c) Cash and cash equivalents | 28,000 | 80,000 |
| d) Other current assets (prepaid expenses) | 16,000 | 8,000 |
| Total | 6,48,000 | 3.68,000 |

Notes to Accounts:

| | Particulars | 31st March | 31st March |
|----|---|------------|------------|
| | | 2017 (Rs.) | 2016 (Rs.) |
| 1. | Share capital | | |
| | a) Equity share capital | 3,00,000 | 2,00,000 |
| | b) Preference share capital | 1,40,000 | 80,000 |
| | _ | 4,40,000 | 2,80,000 |
| 2. | Reserve and surplus | | |
| | Surplus in statement of profit and loss | 28,000 | |
| | at the beginning of the year | | |
| | Add: Profit of the year | 16,000 | |
| | Less: Interim Dividend | 4,000 | |
| | | | |
| | Profit at the end of the year | 40,000 | |

Additional Information:

1. Depreciation charged during the year Rs. 32,000

Rs.

| [Ans.: Cash flow from Operating Activities | 12,000 |
|--|------------|
| Cash flow from Investing Activities | 1,96,000 |
| Cash flow from Financing Activities | 1,56,400]. |

12. From the following Balance Sheet of Computer India Ltd., prepare cash flow statement.

(Rs. in '000)

| Particulars | Note | 31st March | 31st March |
|--------------------------------|------|------------|------------|
| | No. | 2017 (Rs.) | 2016 (Rs.) |
| I. Equity and Liabilities | | | |
| 1. Shareholders' Funds | | | |
| a) Share capital | | 52,000 | 40,000 |
| b) Reserve and surplus-Surplus | 1 | 9,500 | 8,000 |
| 2. Non-Current Liabilities | | | |
| 10% Debentures | | 6,500 | 6,000 |
| 3. Current liabilities | | | |
| a) Short-term borrowings | 2 | 6,800 | 12,500 |

| b) Trade payables c) Short-term provisions Total | 3 | 11,000 4,200 90,000 | 12,000 3,000 81,500 |
|--|---|----------------------------------|----------------------------------|
| II. Assets | | | |
| 1. Non-current assets | | | |
| a) Fixed assets | 4 | 27,000 | 30,000 |
| 2. Current assets | | | |
| a) Inventories | | 35,000 | 30,000 |
| b) Trade receivables | | 24,000 | 20,000 |
| c) Cash and cash equivalents-cash | | 3,500 | 1,200 |
| d) Other current assets-prepaid exp. | | 500 | 300 |
| Total | | 90,000 | 81,500 |

Notes to Accounts:

| Particulars | 31st March 2017 (Rs.) | 31st March 2016 (Rs.) |
|--|--------------------------------|--------------------------------|
| Reserve and surplus Balance in statement of profit and loss ii) General reserve | 7,000 2,500 9,500 | 6,000 2,000 8,000 |
| Short-term borrowings Bank overdraft Short-term provisions i) Provision for taxation | 6,800 | 12,500 |
| 4. Fixed Assets: Fixed Assets Less Accumulated Depreciation | 42,000 (15,000) | 3,000 41,000 (11,000) |
| | 27,000 | 30,000 |

Additional Information:

Proposed dividend for the year 2015-16 is Rs. 2,50,00,000

| [Ans.: Net Cash from Operating Activities | Rs. 2,100 |
|---|-------------|
| Net Cash from Investing Activities | Rs. 1,000 |
| Net Cash from Financing Activities | Rs. 4,900]. |

Answers to Test your Understanding

Test your Understanding - I

Answer: a) Operating activities - 3, 6, 7, 10, 13, 15, 19, 20, 23, 24, 27;

b) Investing activities - 1, 5, 8, 11, 12, 16, 17, 21, 22

c) Financing activities - 2, 4, 9, 14, 18, 25, 26, 28, 29;

d) Cash equivalents - 30, 31, 32, 33.

Test your Understanding - II

Answers: (a) 40,000, (b) 60,000, (c) deducted from,

(d) deducted from, (e) added to, (f) added to

Answers: 1. +, 2. NC, 3. +, 4. -, 5. +, 6. NC, 7. -, 8 +, 9. NC, 10 -, 11 -, 12 +