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ADVANCED FINANCIAL ACCOUNTING

M.Com. (Accountancy/Banking) Semester-II

Paper-V

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FOREWORD

Since its establishment in 1976, Acharya Nagarjuna University has been forging ahead in the path of progress and dynamism, offering a variety of courses and research contributions. I am extremely happy that by gaining 'A' grade from the NAAC in the year 2016, Acharya Nagarjuna University is offering educational opportunities at the UG, PG levels apart from research degrees to students from over 443 affiliated colleges spread over the two districts of Guntur and Prakasam.

The University has also started the Centre for Distance Education in 2003-04 with the aim of taking higher education to the door step of all the sectors of the society. The centre will be a great help to those who cannot join in colleges, those who cannot afford the exorbitant fees as regular students, and even to housewives desirous of pursuing higher studies. Acharya Nagarjuna University has started offering B.A., and B.Com courses at the Degree level and M.A., M.Com., M.Sc., M.B.A., and L.L.M., courses at the PG level from the academic year 2003-2004 onwards.

To facilitate easier understanding by students studying through the distance mode, these self-instruction materials have been prepared by eminent and experienced teachers. The lessons have been drafted with great care and expertise in the stipulated time by these teachers. Constructive ideas and scholarly suggestions are welcome from students and teachers involved respectively. Such ideas will be incorporated for the greater efficacy of this distance mode of education. For clarification of doubts and feedback, weekly classes and contact classes will be arranged at the UG and PG levels respectively.

It is my aim that students getting higher education through the Centre for Distance Education should improve their qualification, have better employment opportunities and in turn be part of country's progress. It is my fond desire that in the years to come, the Centre for Distance Education will go from strength to strength in the form of new courses and by catering to larger number of people. My congratulations to all the Directors, Academic Coordinators, Editors and Lesson-writers of the Centre who have helped in these endeavours.

Prof. P. Raja Sekhar Vice-Chancellor Acharya Nagarjuna University

PAPER TITLE: ADVANCED FINANCIAL ACCOUNTING

- 1.Financial Accounting Objectives and Scope Role of Financial Advisor Analysis and Interpretation of Financial Statements Statement of Changes in Financial Position (SCFP) Ratio Analysis.
- 2. Valuation of Shares Need for Share Valuation Methods of Valuation Net Asset Method Yield Method Impact of earnings Growth on share Valuation Role of Fundamental Analysis and Technical Analysis in share Valuation.
- 3. Valuation of Goodwill Factors affecting Goodwill Types of Goodwill Need for Goodwill Valuation Methods of Goodwill Valuation: Average Method Super-Profit Method Annuity Method Reconstruction External and Internal Reconstruction Alternation of Share Capital Reduction Legal Provisions.
- 4.Accounts of Group Companies Reciprocal Stock Holdings Inter-Company transactions Preparation of Consolidated Accounts Minority interest Cost of Control of Goodwill Treatment of Unrealized Profit Treatment of dividend Consolidated Balance Sheet.
- 5.Financial Reporting Concept Objectives Types of Financial Reporting Concept of Adequate Disclosure Benefits of Adequate Disclosure Investor's attitude towards Disclosure Management attitude towards Disclosure Recent Trends in Published Accounts Performance Highlights Value added Statements Inflation Adjusted Statements Human Resource Accounts Social Balance Sheet.

RECOMMENDED BOOK:

R.L. Gupta and Radhaswamy Advanced Accounting Chakraborty Advanced Accounts W. Hawkins Financial Reporting Dr. D. Prabhakar Rao Human Resource Accounting

(205CO21)

Model Question Paper M.Com. DEGREE EXAMINATION First Year-: Semester-II aper-V. Advanced Financial Accountin

Time: Three hours

Paper–V: Advanced Financial Accounting
Maximum: 70 marks

SECTION A — $(4 \times 5 = 20 \text{ marks})$ Answer any FOUR of the following

- 1. a. Accounting Concepts.
 - b.Limitations of Financial Accounting
 - c. Role of fundamental analysis and technical analysis in share valuation.
 - d. Factors Affecting Goodwill
- e. Types of Goodwill
- f. Inter Company Transactions
- g. Unrealised profits
- h. Evaluate the methods of Human Resource Valuation.

SECTION B — $(5 \times 10 = 50 \text{ marks})$ Answer All of the following.

2. a. Critically explain the role of financial advisor?

(or)

b. The following are the ratios to the trading activities of the National Traders Ltd.,

Debtors Velocity = 3 months
Stock Velocity = 8 months
Creditors velocity = 2 months
Gross profit Ratio = 25%

Closing stock of the year is Rs. 10,000 above the opening stock

Bills Receivable = 25,000

Bills Payable = 10,000

Gross profit for the year Rs. 4,00,000

Find out : a) sales b) Sundry Debtors c) Closing Stock and d) Sundry Creditors

 a. Explain the need for share valuation. Give a brief account of the different methods of valuing shares.

(or)

b. A company issued shares of Rs.100 each on which Rs.70 is paid up. The normal rate of return is 12 per cent. The earning before interest and preference dividend and also before Tax is Rs.6,80,000, the capital employed is Rs.32,00,000. Calculate the value of share on fair value basis assuming tax rate at 40%.

- 4. a. What is goodwill? Explain in brief different methods of goodwill valuation?
 - b. A Company has net tangible assets valued at Rs. 12,00,000 on which a normal rate of return of 10% is expected. It is expected that the company can maintain its super profits for the next six years.

You are required to calculate goodwill of the business on the basis of an annuity of super profits.

5. a. Define the word reconstruction. What entries are passed by a company at External and Internal Reconstruction.?

(or)

b. From the Balance Sheets and information given below, prepare a Consolidated Balance Sheet.

	Dal	anna Chaot	as on 31-12-2003			
Share Capital	H Ltd.	S Ltd. Rs.	as 011 31-12-2003	H Ltd. Rs.	S Ltd Rs.	
Rs. 10 Fully paid	1,00,000	20,000	Sundry Assets	80,000	12,000	
Profit & Loss a/c	40,000	12,000	Stock	61,000	24,000	
Reserve	10,000	6,000	Debtors	13,000	17,000	
Bills Payable		3,000	Bills Receivable	1,000	_	
Creditors	20,000	12,000	Shares in S Ltd.			
			1,500 share at cost	15,000	-	
	1,70,000	53,000		1,70,000	53,000	

- All the profits of S Ltd., have been earned since the shares were aquired by H Ltd., but there
 was already the reserve of Rs. 6,000 on that date.
- The bills accepted by S Ltd., are in all in favour of H Ltd., which has discounted Rs. 2,000 of them.
- c) Sundry Assets of S Ltd., are undervalued by Rs. 2,000
- The stock of H Ltd., included Rs. 5,000 bought from S ltd., at a profit to the latter of 25% on cost.
- 6. a. Define financial reporting what are the essentials of an ideal report.

b. From the following Particulars calculate Net Monetary Gain or Loss

Opg., Cash balance	8,000	Cr. Purchase during the year	500
Cash / sales during the year	10,000	Operating Expenses	4,000
Cr. Sales during the year	5,000	Interest paid on 31st Dec.	5,000
Cash Purchases	1.500	Dividend paid on 31st Dec.	5.000

The following are the Price Indices

Index on the January, 1st	-	100
Index on the December, 31st	-	120
Average Index	_	110

ADVANCED FINANCIAL ACCOUNTING

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FINANCIAL ACCOUNTING

Objectives:

The very objective of this unit is to help the students to understand

- the concept of accounting and financial accounting,
- functions of accounting
- concepts of accounting
- limitations of accounting
- how to convert financial accounting for managerial usage
- the role of financial advisor

STRUCTURE:

- 1.1 Introduction
- 1.2 Definition of Financial Accounting
- 1.3 Functions of Financial Accounting
- 1:4 Accounting concepts
- 1.5 Accounting Conventions
- 1.6 Limitations of financial Accounting.
- 1.7 Converting Financial Accounting for Managerial Usage
- 1.8 .Role of Financial Advisor
- 1.9. Self Assessment Questions
- 1.10 Key Words
- 1.11 Further Readings

1.1. Introduction:

Accounting is the language or medium or means of. Communication of business through which normally a business concern communicate with the outsiders such as investors, creditors, financial institutions etc.. To make this process understandable to as it is necessary that it should be based on certain uniform standards. These standards are termed as accounting principles.

To promote world wide uniformity in published accounts the international Accounting Standards Committee (IASE) has been set up in 1973 to formulate and to promote their universal acceptance and observance. The major objective of IASE is to harmonise accounting standards, to develop accounting standards which are to be observed in the presentation of audited financial statements and to promote world wide acceptance.

Accounting involves the collection, recording, classification and presentation of financial data for the benefit of management and outside agencies such as shareholder, creditors, bankers and Government.

According to the Committee on Terminology of American Institute of Certified Public Accountants, accounting is the "art of recording, classifying and summarising in a significant manner and in terms of money, transactions and events, which are in part at least, of a financial character, and interpreting the results thereof.

The word 'Accounting' can be classified into three categories

- a. Financial Accounting
- b. Cost Accounting, and
- c. Management Accounting

1.2. Definition of Financial Accounting:

Financial Accounting may be defined as the science and art of recording and classifying business transaction and preparing summaries of the same for determining year end profit or loss and the financial position of the concern. Financial accounting is the part of accounting which is employed to communicate the financial information of a business unit. The main object of financial accounting is to find out the profitability and to provide information about the financial position of the organisation. Income and expenditure statement and Balance sheet are the two principal statements of financial accounting.

1.3. Functions of Financial Accounting:

Financial accounting is not only useful to management but also to potential owners, creditors, government agencies and other interested parties of the business. It gives the information about the status of the business and it's results. The following are the functions of financial accounting:

Recording of financial facts:

Accounting is the art of recording financial information of the business concern. Journal and subsidiary books are used to record various transactions in suitable way that the information is properly classified and analysed so that management may make US~ of these financial facts.

2) Data classification:

The financial facts. of one nature are placed at one place. For this classification the book called 'ledger' is used. The entries relating to different items are brought at one place so that full information of these financial items may be connected under different heads.

3) Summarising the information :

The next important function of financial accounting is to make summaries of the recorded and classified financial information in the firm. The classified data is summarised to prepare final accounts -i.e ... Profit and Loss Account and Balance Sheet. Profit and Loss Account' is the summary of various incomes and expenses and Balance Sheet is the summary of various assets and liabilities.

4) Dealing with financial transaction:

Money is taken as a common medium and all economic transactions are expressed in monetary terms. Any transaction which cannot be expressed in monetary terms does not form a part of financial accounting even though it has a significant bearing on the working of the business.

5) Interpretation of financial information

Financial accounting is to help the management to take decisions or drawing conclusions. So the accounting information is modified to provide interpretation and decision support to the management. This interpretation creates an opinion about the profitability and overall financial performance and position of the business.

6) Communication of financial results

The profitability of a business concern is to be communicated through the Profit and Loss Account and the financial position is to be informed through the Balance sheet of the firm. This information is supplied at regular intervals. This communication of results is also another important function of financial accounting to serve the needs of persons interested in knowing the results of the business.

7) Provide the information more reliable

Another important function of financial accounting is to make the information more reliable and useful. This is possible by the use of internationally accepted standards for preparing account and disclosure of the same. To continue the reliability of accounts same accounting principles should be consistently used by the concern throughout the financial year for recording, classifying, summarizing and interpreting.

1.4. Accounting Concepts:

1. Business Entity concept:

The concept implies that a business unit is separate and distinct from the persons who supply capital to it. In accounting, business is treated as a separate entity from its owners. Accounting is prepared to give information about the business and not those who own it. This concept is necessary to ascertain the results of business operations.

2. Going Concern Concept:

According to this concept, it is assumed that the business will continue to exist indefinitely or at least in the near future. The financial resources of the firm at present are utilized to attain the long term objectives of the business. Going concern concept is evident form recording the fixed assets at.

diminishing balances.

3. Money Measurement Concept:

According to this concept only those transactions are recorded in accounting which can bel expressed in terms of money. Money is accepted as a medium of exchange for goods and services. Money provided mechanism by which real resources can be transferred among different individuals.

4. Cost concept:

The accounting records are based on cost concept. The cost concept of accounting closely relate to the going concern concept. It is that an asset is recorded in the books at the price paid to acquire it and that this cost is the basis for all subsequent accounting for the asset. The assets and liabilities of a business are shown at a cost which has been paid or agreed upon between the parties. The figures are recorded on objectivity basis. There is no room for personal assessment or bias in showing the figures.

5. Dual Aspect Concept:

This concept lies at the heart of whole accounting system. According to this concept every business transaction has a dual effect. It is based on the principle that for every debit

transaction, there is a corresponding credit transaction. There must be giver of benefit and also a taker of it. The debits will be equal to credits. The dual concept has created the system of double entry book- ·Keeping.

1.5

6. Accounting Period / Accrual Concept:

On the base of this concept the life of the business is divided into appropriate segments of studying the result shown by the business after each segment. Financial position and profitability of a concern are assessed at a regular interval called accounting period. In the preparation of Profit and loss Account of a firm all revenue items relating to that period be taken into consideration irrespective of the fact that whether these items are paid or payable.

7. Realisation Concept:

This concept is related to the realisation of revenue. The revenue is realized either from sale of products or from rendering of services. The realisation concept is also known as the revenue recognition concept', so revenue is considered as being earned on the date on which it is realized. i.e. the date on which goods and service are transferred to customers either for cash or for legal obligation.

8. Matching of Cost and Revenue concept:

As a general principle, the costs are matched to revenues to measure the profits. A distinction between present, past and future expenditure as well as capital and revenue expenses is necessary. The revenue and cost of the same period, product or service are matched. Similarly the expenses whose utility is to be derived over a number of years are taken to the balance sheet as deferred revenue expenditure. Capital expenditures become a part of cost over a number of years through depreciation.

9. The Accrual concept:

While the realisation concept is mainly concerned with revenue recognition, the accrual concept, which applies both to revenues and expenses, reinforces the realisation concept. The concept distinguishes between the right to receive cash and the actual receipt of cash, and the obligation to pay cash and the actual payment of cash. Or the basis of this distinction, the accountant has to treat as expenses only those items for which there is the legal Obligation to pay, although cash might not have been paid for them. Similarly, if a payment is made in advance, it should not be treated as an expense. Again, cash paid by mistake is also not an expense. Thus; where an expense is incurred, and no payment is made should be shown as a liability i.e. creditor.

Advanced Financial Accounting

1.6 Financial Accounting

1.5. Accounting Conventions:

a) Convention of Conservatism:

This convention ensures that uncertainties and risk inherent in business transactions should be given a proper consideration. If there is a possibility of loss, it should be taken into account at the earliest. On the other hand, a prospect of profit should be ignored upto the time it does not materialise.

b) Convention of Consistency:

According to this convention, accounting practices should remain unchanged from one period to another. This means that the same accounting principles should be used for preparing financial statements for different periods. It allows a comparison in the performance of different periods.

c) Convention of Disclosure:

This convention implies that accounts should be prepared in such a way that all material information is clearly disclosed to the reader. This information should include figures in the final accounts as well as information which occurs after the preparation of the balance sheet but before the presentation of financial statements. The inherent point in this convention is that the financial statement should be prejudice-free devoid of concealing any facts to provide free judgment.

d) Convention of Materiality

According to this convention only those events should be recorded which have a significant bearing and insignificant aspects should be ignored. The avoidance of the insignificant will not materially affect the record of the concern. There is no formula in making a distinction between significant and insignificant events. It is a matter of judgment and it is left to the accountant for taking a decision.

1.6. Limitations of Financial Accounting:

The financial accounting is concerned with the preparation of final accounts. At present the business has become more complex that mere information of final accounts is insufficient in meeting the informational needs. Some of the limitations of financial accounting are discussed below.

a. Historical in nature :

Financial accounting record the transactions which have taken place in the business in a period. Future uncertainties has no place in financial accounting. Through management needs information for future activities, financial accounting can only give information about what has happened and not what will happen.

b. Activity wise information is not possible

In financial accounting information is recorded for the whole concern and of total expenses and total receipts only. It cannot provide information product-wise, process-wise, department-wise or in terms of any other line of activity. Financial accounting cannot help for cost determination and cost control purposes.

c. Helpless in Price Fixation:

As financial accounting is historical it cannot facilitate to determine the price in advance. Financial accounting cannot supply the information to quote the price for the supply of goods in the near future i.e. for submitting tenders. The cost of a product can be obtained only when all expenses incurred product wise have been recorded. Due to this deficiency financial Accounting is not helpful in fixation of the prices of the products.

d. Appraisal of policies is not possible

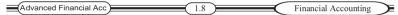
It is not possible to evaluate various policies and programmes in financial accounting. There is no scientific technique for comparing actual performance with budgeted targets. The only criterion for determining efficiency is to see the profits at the end financial period.

e. Price changes are not considered:

Financial accounting records only actual cost figures. The prices of goods and assets go on varying from time to time. The present prices of any asset may be different from the recorded costs. Financial accounting does not record price level changes.

f. Not helpful in taking decisions:

Decisions like, replacement of labour by machinery, introduction of a new product, discontinuation of product, product diversification, changes in line of production, expansion of the capacity, changes in the marketing mix etc need the cost involvement in anticipation. Financial accounts cannot provide necessary figures and facts for taking those important decisions.



1.7. Converting Financial Accounts Useful to Management:

The limitations of the financial accounting make an impression that financial accounting and financial statements are not very much useful to the management. Despite various limitations financial accounting is very much essential for every business concern. The following steps make the financial statements useful to the management.

a. Latest information of accounts :

The delayed supply of information will reduce the utility of financial statements to the decision makers. So financial accounts will be useful if they are available with latest information and facts. Then the management is able to form an opinion about the performance of the business and will also take. corrective measures.

b. Interim reports to be prepared :

The financial statements are prepared at the end of the financial year. Management will be able to know the performance of the business at the end of the financial year only. If something goes wrong in middle of the year-the management will remain ignorant about it. Interim reports prepared during the-period help the management to appraise the working of the business. Whenever performance is below the standards set to rectify and to improve the performance.

c. Application of comparative analysis :

The comparison of different financial statement will enable the management to see the trend of performance. Historical data will provide a proper base for comparing the present performance and analyser will be able to judge whether the performance has improved or deteriorated.

1.8. Role of Financial Advisor:

The finance function has been dealt by the separate person may be designated as financial manager or financial controller or financial advisor. The person in charge of finance activity has to discharge both routine functions and managerial functions.

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Functions of Financial Advisor:

Routine functions: Setting up of rules and procedures Establishing standards Custodian of cash and bank account Collection of debts loans etc

Managerial functions: Financial planning Budgeting Profit analysis Investment decisions

Payment of Cash Financial accounting and internal audit
The functions and responsibilities of the financial advisor generally include the following.

- 1. To formulate programmes to provide effective cost-volume profit relationship.
- 2. To critically analyse financial results and reporting the facts to the top management and make recommendation concerning future operations.
- 3. To determine the need of the financial resources and source for that need
- 4.. To take necessary studies for cost reduction and efficiency improvement
- 5. To be the principal coordinating officer for preparing and operating long term, annual and capital budgets.
- 6. To advise the chief executive on pricing policies,
- 7. To act as principal office in charge of accounts, including cost and store accounts and internal audit ${\bf r}$
- 8. To be the custodian of the cash and the principal disbursing office of the concern
- 9. To be responsible for attending all the tax matters
- 10. To furnish prospective costs of products, to enable the management to determine the optimum product \min .
- 11. To prepare various periodic reports to be submitted to various authorities including financial institutions, government etc. $\,\,$
- 12. To examine feasibility studies and detailed project reports mainly from the point of view of overall viability of the project.

Advanced Financial Accounting Financial Accounting

1.9. Self Assessment Questions:

1. What are the basic accounting concepts and explain their implication?

2. Explain the functions of financial accounting

3. Critically explain the role of financial advisor?

1.10. Key Words:

Business entity
 A business unit is esparto and distinct from the

persons who supply capital to it.

2, Dual aspect concept Every financial transaction involves a two-fold

aspect

Accounting conventions are the

3. Accounting Conventions traditions, usage and customs which

are in use since long,

1.11. Further Readings

(:1

1. S.N. Maheswari "Principles of Management Accounting: Sultan Chand & Sons. New Delhi. 1996

 $2. \quad \text{S,P. Jain and K.I. Narang } \textit{"Financial Accounting"} \text{ Kalyan publishers, Ludhlana } \textit{2002}$

3. R.L. Gupta "Advarced Accountency" Sultan Chand & Sons, New Delhi

Dr. J. Chandra Prasad

f.

Lesson - 2

STATEMENT OF CHANGES IN FINANCIAL POSITION

OBJECTIVES:

After going through this chapter you will

- understand the concept of funds and flow
- Know how to prepare the statement of changes in working capital
- Prepare the sources and application of funds statement.

STRUCTURE:

- 2.1 Introduction
- 2.2 Definitions
- 2.3 Uses and importance of Funds flow statement
- 2.4 Limitations
- 2.5 Concept of sources and uses of funds
- 2.6 Flows that affect net working capital
- 2.7 List of non-current accounts
- 2.8 Calculation of the amount of changes in Net working capital
- 2.9, Calculation of funds from operations
- 2.10 Preparation of Funds flow statement
- 2.11 Exercises & Solutions
- 2.12 Summary
- 2.13 Key words
- 2.14 Self Assessment Questions and Exercises
- 2.15 Suggested Readings

2.1 INTRODUCTION:

Verily, the Role of "Ratio Analysis" lies in evaluating efficiency, liquidity and structural aspects of working capital management in a business firm. The term "business Liquidity" has been interpreted in may ways. It refers to position of net working capital (NWC) of the firm. It also means cash and cash equivalent balances of the firm. In fact, net working capital approach has been quite dominant for a long time. It suggests that liquidity of the firm should depend upon the position of its net working capital. Working capital flows from one element of balance sheet to another during an accounting period. It is the amount of net working capital which is valuable to the firm as a liquid resource. A statement that uses net working capital as a measure of liquidity position is referred to as Funds flow statement.

To go to the roots, this Funds flow statement was termed "where got and where gone statement. This statement records the increases and decreases in different items of the balance sheet. Later it was called "Funds statement". In 1963 APB (Accounting Principles Board) changed the name of the statement as "Statement of sources and Application of Funds". Again in 1971 the American Institute changed its name as per the recommendations of the APB as "Statement of changes in Financial Position". "Funds Flow statement" is also called as summary of financial operations. "Movement of working capital statement", "Movement of funds statement", "Funds received and disbursed statement", "Funds generated and expended statement", etc.

2.2 DEFINITIONS:

Foulke's definition is significant "A Statement of sources and application of funds is a technical device designed to analyse the changes in the financial condition of a business enterprise between two dates"

Anthony Opined "The funds flow statement describes the sources from which additional funds were derived and the use to which these sources were put.

According to Bierman "It is a statement which highlights the underlying financial movements and explains the changes of working capital from one point of time to another".

2.3. USES AND IMPORTANCE OF FUNDS FLOW STATEMENT

- * An essential tool for the financial analysis and management
- Reveals the changes in the working capital and gives the details of the sources from which working capital has been financed.
- Helps in the analysis of the financial operations and explains causes for the changes on the liquidity position of the company.
- * Helps in dividend distribution and the formulation of an ideal dividend policy.
- * Helps in making correct decisions in planning and development of the company
- * Gives the information to forecast the problem to be faced in near future for want of funds
- Explains how the management used the working capital in the past, so as to form an idea to improve the activities in the future.
- * Helps the management to know the overall credit worthiness of the firm by throwing light on a number of related matters, so that perplexing situation do not arise.

2.4. Limitations

- It is not a Balance sheet because it only gives the information regarding changes in working capital.
- 2. It is only data given in the Financial statements and not an original statement.
- 3. It may not be prepared with perfection and accuracy.
- 4. Continuous changes cannot be incorporated.
- 5. Changes in cash are very much relevant which is not found in theworking capital

2.5. Concept of Sources and uses of funds

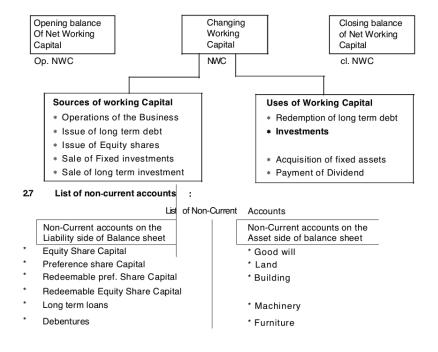
In order to undertake Fund flow analysis, it requires an understanding of the following:

The first step to analyse the fund flow is to classify the business transactions into the sources and uses of funds

- An increase in non-current liabilities or a decrease in non-current assets of the firm is considered as source of funds. (The list of non-current items is given in the next page
- An increase in the non-current assets and a decrease in the non-current liabilities is a use of funds.
- A decrease in net working capital during the accounting period, is considered to be a source of funds.
- An increase on net working capital during the accounting period is considered to be a use of funds.

2.6. Flows that affects the net working capital

Flows that affects Net Working Capital (NWC)



=	Advanced Financial Acc	2.4 Sta. of Changes Financial Position
*	Share premium a/c	* Long term investments
*	Forfeited a/c	* Patent Rights
*	P&L a/c	* Trade marks
	G/R/DER/CRF/I/F/WEF	* Discount on issue of shares
*	'Capital Reserve	* Preliminary Expenses
*	Provision for Tax	* Other deferred expenses
	Provision for Depreciation	
*	Proposed dividend	
_		

2.8. Calculation of the amount of changes in Net Working Capital

The amount of change in NWC can be calculated by using either only current items or only non current items from the balance sheet.

a. Use of only current Assets : Net working capital is defined using only current items as an excess of current assets (CA) over current liabilities (CL)

Net Working Capital = Current Assets — Current Liabilities

NWC = CA - CL

Changing NWC Change in CA - Change in CL

A NWC = A CA - A CLNWC = A (CA - CL)NWC = A (CA - CL)

b. Schedule of Changes in working capital :

The increase or decrease in working capital can be calculated by preparing the schedule of changes in working capital.

Statement of changes in working capital

		Previous Year	Current Year	Effect on Work	ing Capital
		, ou	. 50.	Increase	Decrease
				Rs.	Rs.
Current Assets:	(A)				
Debtors					
Cash					
Stock					
Bills Receivable					
Bank					
Prepaid Expenses					
Total (a)					

2.5

Illustration 1:

Acharya Nagarjuna University

1. From the following Balance sheet of Mr. Kumar you are required to prepare a schedule of changes in working capital.

21	Decem	h ~ r

Centre for Distance Education

	1991	1992
Assets:	Rs.	Rs.
Land & buildings	50 000	50.000
Plant	24,000	34.000
Stock	9.000	7.000
Debtors	16.500	19.500
Cash at Bank	4,000	9.000
	1,03,500	1,19,500

Total

31"' December

	1991	1992
Liabilities :	Rs.	Rs.
Capital	80 000	85.000
Profit & Loss Appropriation a/c	14.500	24.500
Creditors	9.000	5,000
Mortgage		5.000
	1, 03,500	1 19.500

Solution:

Statement of Changes in Working Capital

		Previous	Current	Effect on W	orking Capital
		Year	Year	Increase	Decrease
		1991	1992	Rs.	Rs.
Cu	rrent Assets :				
*	Stock	9.000	7,000	_	2,000
*	Debtors	16,500	19,500	3,000	
*	Cash at Bank	4,000	9,000	5,000	
	Total	29,5000	35,000		
Cu	rrent Liabilities :				
*	Sunday Creditors	9,000	5,000	4,000	_
*	Increase in working capital				10,000
	Total	9,000	5,000	12,000	12,000

${\bf 2.9.} \ {\bf Calculation} \ {\bf of} \ {\bf Funds} \ {\bf from} \ {\bf operations} \ :$

The Following method is to be followed in the computation of funds from operation.

Particulars	Amount	Amount
Net Profit as per P&L A/c		xxx
Add (The following items do not result in out flow of funds)		
Depreciation on fixed assets Good will written off Preliminary expenses written off Provision for taxation (It may be taken as appropriation of profits) Proposed dividend (It may be taken as appropriations of profits) Transfer to reserves	XXX	
* Loss on sale of non-current assets	XXX	xxx
 Less - Profit on sale of non-current assets Profit on revaluation on fixed assets Non operating incomes Fund from operation 	· xxx xxx	

Alternative Method :

Calculation of fund from operation :

Profit & Loss Adjustment A/c

	•		
To Depreciation on fixed assets	xxx	By profit on sale of non current assets	xxx
To preliminary Expenses written off	xxx	By profit on revaluation Of assets	xxx
To Goodwill written off	xxx	By non-operating income	xxx
To provision for taxation	xxx	By Fund from operation (Balancing figure)	xxx
To Proposed dividend	xxx		
To Transfer to General Reserve	xxx		
To Loss on sale of non current assets	xxx		
To Net profit	xxx		
	xxx		xxx

Illustration 2

From the following information calculate Funds from operation of SAI Co.

- total the tellething members calculate a discontinuous epotation of the con-							
Particulars	Rs.	Particulars	Rs.				
To Salaries	9,000	By Gross Profit	2,10,000				
To Advertisement	2,000	By Profit on sale of Machinery	3,000				
To Rent	1,000	By Refund of Income Tax	2,000				
To Commission	1,500	By Dividends Received	1,500				
To Discount Allowed	750						
To Provision for							
Depreciation	12,000						
To Transfer to General							
Reserve	21,000						
To Provision for taxation To Loss on sale of	7,500						
Investments	4,500						
To Discount on issue of							
Debentures	1,500						
To preliminary Expenses	3,500						
To Selling Expenses	18,000						
Net Profit	1,34,250						
	2,16,500		2,16,500				

Solution :

Calculation of Funds from operation

	Particulars	Rs.	Rs.	
Ne	et Profit	1,34,250		
ΑD	DD: Non-operating Expenses & Losses			
	Provision for Depreciation	12,000		
*	Transfer to General Reserve	21,000		
*	Provision for Taxation	7,500		
*	Loss on Sale of Investment	4,500		
*	Discount on Issue of Debentures	1,500		
Le	ss : Non-operating Incomes & Gains			
*	Profit on Sale of Machinery		3,000	
*	Refund of Income Tax		2,000	
*	Dividends Received		1.500	
*	Funds from operation		1,74,250	
		1,80,750	1,80,750	

Alternative Method :

Calculation of fund from operation :

Profit & Loss Adjustment A/c

Particulars	Rs.	Particulars	Rs.		
Tc.' Provision for Depreciation	12,000	By Profit on sale of Machinery	3,000		
To Transfer to General Reserve	21,000	By Refund of Income Tax	2,000		
To Provision for Taxation	7,500	By Dividends Received	1,500		
To Los on Sale of Investments	4,500				
To Discount on issue of Debentures	1,500				
To Net profit	1,34,250	By Fund from operation (B/F)	1,74,250		
	1,80,750		1,80,750		

	Acharya Nagarjuna University 2.9	Centre	for Distance Education
	2 Chatamant of Funda Flour Chatamant		
	Statement of Funds Flow Statement : rticulars	Rs.	D-
		KS.	Rs.
	urces of Funds :		
*	Funds from operation	XXX	
*	Issue of Share Capital	xxx	
*	Issue of Debentures	xxx	
*	Long Term Loans	xxx	
*	Sale of Fixed Assets	xxx	
*	Non-Trading Items	xxx	
*	Dividends Received	XXX	
*	Decreasing Working Capital (as per	xxx	
•	Schedule of Changes in working capital)		
			xxx
Tot	al	xxx	xxx
Αp	plications :		
*	Payment of Equity Share Capital	xxx	
*	Redemption of Pref. Share Capital	xxx	
*	Repayment of Long Term Loans	xxx	
•	Redemption of Debentures	xxx	
*	Purchase of Investment Debentures	xxx	
*	Payment of Dividends	xxx	
*	Payment of Taxes		
*	Increase in working capital (as per		
	schedule of changes in working capital)	xxx	
			xxx
	Total	xxx	
	Only one will be appear		
	The above Funds Flow statement can also be prepare	ed in a/c model.	
	Sources of Funds Funds flow statement Appl	ication of Funds	

Payment of Equity Share Capital

Redemption of pref. Share capital

Funds from operation

Issue of Share Capital

Issue of Debentures	Repayment of Long Term Loans		
Long Term Loans	Redemption of Debentures		
Sale of Fixed Assets	Purchase of Investment Debentures		
Non-trading Items	Payment of Dividends		
Dividends Received	Payment of Taxes		
Decreasing working capital (as per	Increase in working capital (as per		
schedule of changes in working capital)	schedule of changes in working capital)		

2.10 Sta.of Changes Financial Position

Illustration 3

Advanced Financial Acc

From the following Balance Sheet of Mr. Kumar you are required to prepare a schedule of changes in working capital and statement of flow of funds.

0				
	31 st December		ecember	
	1991		1992	
Assets:		Rs.	Rs.	
Land & Buildings		50,000	50,000	
Plant		24,000	34,000	
Stock		9,000	7,000	
Debtors		16,500	19,500	
Cash at Bank		4.000	9,000	
		1.03,500	1,19,500	
		31s' December		
		1991	1992	
Liabilities :		Rs.	Rs.	
Capital		80,000	85,000	
Profit & Loss Appropriation a/c		14,500	24,500	
Creditors		9,000	5,000	
Mortgage			5,000	
		1,03,500	1,19,500	

(M.Com Final October, 1993 /AFM/ANU)

Solution:

Statement of Changes in Working Capital

	Previous	Current	Effect on Wa	rking Capital
	Year	Year	Increase	Decrease
	1991	1992	Rs.	Rs.
Current Assets				
Stock	9,000	7,000		2,000
Debtors	16,500	19,500	3,000	
Cash at Bank	4,000	9,000	5,000	
Total	29,500	35,500		
Current Liabilities :				
Sundry Creditors	9,000	5,000	4,000	
Increase in working capital				10,000
Total	9,000	5,000	12,000	12,000

Working Capital: (Non-Current Liabilities Capital a/c)

Particulars	Amount Rs.	Particulars	Amount RS.
		By Opening Balance By Bank (B/F)	80,000 5,000
To Closing Balance	85,000		
	85,000		85,000
It indicates the new issue of shares.			

Profit & Loss Appropriation a/c

Particulars '	Amount Rs.	Particulars	Amount Rs.
		By Opening Balance	14,500
		By Fund From Operation	10,000
To Closing Balance	24,500		
	24,500		24,500

Advanced Financial Acc	2.12	Sta. of Change	es Financial Position
	Mortgage a/c		
Particulars	Amount Rs.	Particulars	Amount Rs.
To Closing Balance	5.000	By Opening Balance By Bank (B/F)	5.000
TO Closing Darance	5,000		5.000

It tells us the new borrowings.

Non-current assets a/c

Land & buildings a/c

Particulars	Amount Rs.	Particulars	Amount Rs.
To Opening Balance	50,000		
		By Closing Balance	50.000
	50.000		50.000
	PI	ant a/c	
Particulars	Amount Rs.	Particulars	Amount Rs.
To Opening Balar cc	24.000		
To Bank (B/F)	10,000		
		By Closing Balance	34.000
	34,000		34.000

Funds Flow Statement

Sources	Amount	Applications	Amount
Issue of New Shares	5,000	Purchase of New Plant	I 10.000
Mortage Loan	5.000		
Fund for Operation	10,000	Increase in N.W.0	10.000
	20,000		20,000

2.11 Exercises & Solutions

Provision for Taxation :

There are two methods available for treatment of provision for taxation. If it is treated as current liability, it will appear in the schedule of changes in working capital. Suppose if it is treated as an appropriation of profit, it will not appears in the schedule of changes in working capital. (It is a non current liability)

Acharva	Nagariuna	University

2.13

Centre for Distance Education

	Provision	for Taxation a/c		
Particulars	Amount Rs.	Particulars	Amount Rs.	
To Bank	xxx	By Opening Balance	xxx	
(if tax paid)		By P&L a/c (transfer)		
To C!. Balance	xxx			
	xxx		xxx	

Illustration 4:

The following are the summaries of the Balance sheets of X co. ${\bf Ltd.}$, as at 31st December, 1995 and 1996 :

Liabilities	1995 Rs.	1996 Rs.	Assets	1995 Rs.	1996 Rs.
Share Capital	2.00,000	2,50,000	Land & buildings	2,00.000	1,90.000
General Reserve	50,000	60,000	Plant	1.50,000	1,74,000
Profit & Loss A/c	30,500	30,600	Stock	1,00,000	74,000
Bank Loan	70,000		Debtors	80,000	64,200
Creditors	1.50.000	1 35.200	Cash	500	600
Provision for Taxation	30,000	35,000	Bank		8,000
	5,30.500	5,10,800		5,30,500	5,10,800

Prepare a statement of sources and application of funds for the year 1996 and a schedule of changes in working capital.

Solution :

Statement of changes in working capital

	Previous Current		Effect on Wo	rking capital
	Year	Year	Increase	Decrease
	1995	1996	Rs	Rs.
Cu rent Assets :				
* Stock	1,00.000	⁷ 4,000		26,000
* Debtors	80,000	64,200		15,800
* Cash	500	600	100	
* - Bank		8.000	8.000	
Current Liabilities				
* Sundry Creditors	1,50,000	1,35.200	14.800	
* Provision for taxation	30.000	35.000		5.000
* Decrease in NWC			23.900	
Total			46,800	46,800

b. Provision for Doubtful debts :

In the case Provision for doubtful debts there are two alternative treatments are available. One as current liability (when Debtors are not good). Suppose if Debtors are good, then the provision for doubtful debts is individual as an appropriation of profit.

Illustration : !

From the following Balance Sheets of Z co. Ltd. On 31 December, 1995 and 1996, you are required to prepare:

a) A schedule of changes in working capital and

b) A Funds Flow Statement.

Liabilities	1995 Rs.	1996 Rs.	Assets	1995 Rs.	1996 Rs.
Share Capital	3,00,000	3,00,000	Goodwill	2,12,000	2,12,000
General Reserve	14,000	18,000	Building	40,000	36,000
Profit & Loss A/c	16,000	13,000	Plant	37,000	36,000
Sundry Creditors	8,000	5,000	Investments	10,000	11,000
Bills Payable	1,200	1,200	Stock	30,000	23,400
Provision for Taxation	16,000	18,000	Bills receivable	2,000	3,200
Provision for	400	600	Debtors	18,000	19,000
Doubtful debts			Cash at Bank	6,600	15,200
	3,55,600	3,55,800		3,55,600	3,55,800

Statement of Changes in Workirig Capital

	Previous Year	Current Year	Effect on working capital	
			Increase	Decrease
	1995	1996	Rs.	Rs.
Current Assets :				
* Stock	30,000	23,400	_	6,600
* B/R	2,000	3,200	1,200	
Debtors	18,000	19,000	1,000	
Cash at Bank	8,600	15,200	8,600	
Current Liabilities				
Sundry Creditors	3,000	5,000	3,000	
B/P	1.200	1,200	_	
Provision for tax Lion	16.000	18,000		2,000
Provision for doubtful debts	400	600		200
* Increase in NWC				5,000
Total			13,800	13,800

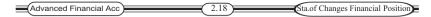
Working Note : (Non-Current Liabilities)

Share; capital a/c

Particulars	Amounts Rs.	Particulars	Amount Rs.
		By Opening Balance	3,00,000
To Closing balance	3,00.000		
	3,00,000		3,00,000
	G	/R a/c	
Particulars	Amounts Rs.	Particulars	Amount Rs.
		By Opening Balance	14,000
		By P&L a/c (B/F)	4,000
To Closing Balance	18,000		
	18.000		18,000

During the year the firm has made transfer to General Reserve a/c Rs. 4,000.

	P	&L a/c	
Particulars	Amount Rs.	Particulars	Amount Rs
To General Reserve	4,000	By Op. Profit	16,000
To Dep. on Buildings	4.000		
To Dep. on plant	1,000		
		By Fund for Operation (B/F)	6,000
To Closing Profit	13.000		
	22,000		22,000
Non-Current Assets a/c	0	dudli a fa	I
D	Amount	dwill a/c	Amount
Particulars	Rs.	Particulars	Rs.
To Co. Balance	2.12.000		
		By Closing Balance	2,12.000
	2.12,000	, ,	2.12,000
		ding a/c	
Particulars	Amount Rs.	Particulars	Amount Rs.
To Op. Balance	40.000	By Dep. (B/F)	4,000
		By Closing Balance	36.000
	40,000		40,000
	Pla	ant a/c	
Particulars	Amount Rs.	Particulars	Amount Rs.
To Op Balance	37.000	By Dep. (B/F)	1.000
		By Closing Balance	36.000
	37,000		37,000
	Inves	tment a/c	
Particulars	Amount Rs.	Particulars	. Amount Rs.
To Op. Balance To Bank (B/F)	10.000 1.000		
		By Closing Balance	11.000
	11,000		11,000



Particulars	Amount Rs.	Particulars	Amount Rs.
Funds for Operation	6,000	Increase in NWC	5,000
		Investment Purchased	1,000
	6,000		6,000

Illustration : 6

Comparative Balance Sheets of Shravan Ltd. as 30 $^{\rm n}$ June 1997 and 30 $^{\rm 1}h$ June 1998 are as follows

TOTIOWS					
Liabilities	June 30 1997	June 30 , 1998	Assets	June 30 1997	June 30 1998
Share Capital	70,000	74,000	Cash	9.000	7,800
Debentures	12.000	6.000	Trade Debtors	14,900	17.700
Trade Creditors	10,360	11,840	Stock	49.200	42,700
Reserve for Doubtful debts	700	800	Land	20.000	30 000
Profit & Loss a/c	10,040	10,560	Goodwill	10,000	5.000
	1,03,100	1,03,200		1.03,100	1.03.200

Additional Information :

- a) Dividends were paid totalling Rs. 3,500
- b) Land was purchased for Rs. 10,000
- c) Goodwill written off amounted to Rs. 5.000 and
- d) Debenture loan was repaid Rs. 6,000

You are required to prepare cash flow statement.

Solution :

Statement of Changes in Working Capital

	Previous Year	Current year -	Effect on working capital	
	fear		Increase	Decrease
	1997	1998	Rs.	Rs.
Current Assets :				
Cash Trade	9,000	7,800		1,200
Debtors	14,900	17,700	2.800	
Stock	49,200	42,700	_	6.500
		1	I	1

Acharya Nagarjuna University	2.	19	Centre for Dista	nce Education
		ı		ı
Current Liabilities:				
Trade Creditors	10,360	11,840		1,480
Reserve for Doubtful debts	700	800		100
Decrease in NWC			6,480	
Total			9,280	9.280

P & L a/c

		r & L a/C	
Particulars	Amount Rs.	Particulars	Amount Rs.
To Goodwill written off	5,000	By Op. Profit	10,040
To Dividend paid	3,500		
		By fund for operation (B/F)	9,020
To Net Profit	10,560		
	19,060		19,060
	Funds F	low Statement a/c	
Particulars	Amount Rs.	Particulars	Amount Rs.
Issue of New Shares	4,000	Repayment of Debentures	6,000
Funds from Operation	9,020	Land Purchased	10,000
		Dividend paid	3,500 -
	19,500		19,500

Illustration: 7

Following is the condensed Balance Sheet of a Company

Liabilities	1996 Rs.	1997 Rs.	Assets	1996 Rs.	1997 Rs.
Equity Share Capital	1,50,000	1,53,000	Cash	38,000	42,000
10% Debentures	36,000	36,000	Debtors	21,000	18,000
Creditors	75,000	48,000	Stock	70,000	62,000
P&L A/c	15,000	27,000	Fixed Assets	1,00,000	1,00,000
			Preliminary Exp.	47,000	42,000
	2,76,000	2,64,000		2,76,000	2,64,000

Additional Information :

a) Fixed Assets costing Rs. 12,000 were bought during for 1997 cash.

- Fixed Assets with original cost of Rs. 4,000 with accumulated depreciation Rs. 1,500, were sold at book value in jan. 1997
- c) During 1997, dividends paid were Rs.3,000. Prepare sources andapplication of funds statement **Solution :** Statement of Changes in Working capital

		Previous Year	Current year	Effect on working capital	
				Increase	Decrease
		1996	1997	Rs.	Rs.
Cu	rrent Assets				
*	Cash	38,000	42,000	4,000	
*	Debtors	21,000	18,000		3,000_
*	Stock	70,000	62,000		8,000
Cu	rrent Liabilities :				
*	Sundry Creditors	75,000	48,000	27,000	
	Increase in NWC				20,000
	Total			31,000	31,000

Fixed Assets a/o

Fixed Assets a/c						
Particulars	Amount Rs.	Particulars	Amount Rs.			
To Opening Balance	1,00,000	By Bank (4000-1500)	2,500			
To Bank	12,000	By Depreciation	9,500			
		By Closing Balance	1,00,000			
	1,12,000		1,12,000			
	Preliminary E	expenditure a/c				
Particulars	Amount Rs.	Particulars	Amount Rs.			
To Opening Balance	47,000					
		By Closing Balance	42,000			
		By P&L a/c	5,000			
	47,000		47,000			

Achanya	Nagariuna	Linivareit
Acharva	Nagariuria	Universit

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Centre for Distance Education

P & L a/c

Particulars	Amount Rs.	Particulars	Amount Rs.
To preli. Exp. Written off	5,000	By op. Profit	15,000
To Dep. on Fixed Assets	9,500		
To Dividends Paid	3,000		
		By Fund for operation (B/F)	29.500
To Closing Profit	27.000		
	44,500		44,500
	Funds Flow	Statement a/c	
Particulars	Amount Rs.	Particulars	Amount Rs.
issue of Eq. Share Capital	3,000	Purchase of Fixed Assets	12,000
Funds from Operation	29,500	Dividends Paid	3,000
Sale of Fixed Assets	2,500	Increase in W. Capital	20,000
	35,000		35,000

2.12 Summary

Funds Flow Analysis can be termed as the detailed analysis of the net working capital position of the firm and this analysis helps management to administer and control the amount of total working capital. Moreover, such analysis can greatly facilitate a critical review of the liquidity position. If liquidity position has deteriorated over time, it can motivate the management to identify the problem areas and initiate corrective steps.

2.13 Keywords:

Funds The term funds means working capital i.e. the excess of current assets

over current liabilities.

Flow of Funds The term flow means movement and includes both "Inflow" and "outflow"

Working Capital Current Assets — Current Liabilities

2.14 Self - Assessment Questions and Exercises

- 1. What is Funds Flow Statement? Discuss the importance of Funds Flow Statement as a tool of Financial Analysis?
- 2. Explain the meaning, importance and objectives of funds flow statement.
- 3. Explain briefly the steps to be followed in preparing a funds flow statement.
- 4. What are the limitations of funds flow statement. ?
- What do you understand by the term working capital and the concept of 'Funds" ? How is funds flow statement drawn under this concept.

2.22

Sta. of Changes Financial Position

The following is the comparative Balance sheets of A Ltd. for the years ending 31st December 1991 and 1992. Prepare a schedule of changes in working capital and a fund flow statement.

Liabilities	1991 Rs.	1992 Rs.	Assets	1991 Rs.	1992 Rs.
Capital	8,000	8,500	Land	5,000	5,000
Profit and Loss a/c	1,450	2,450	Plant	2,400	3,400
Creditors	900	500	Debtors	1,650	1,950
Loan		500	Stock	900	700
			Cash	400	900
	10,350	11,950		10,350	11,950

7. The following are the summaries of the Balance Sheets of Essar Ltd. as at 31⁵¹ December 1991 and 31⁵¹ December 1992.

Liabilities :	Rs.	Rs.
Share Capital	20,00,000	26,00,000
Reserves	5,00,000	5,00,000
P&L a/c	3,96,900	4,12,200
Creditors	3,95,000	4,11,350
Bills payable	3,37,800	1,15,250
Bank Overdraft	5,95,100	
Provision for Tax	4,00,000	5,00,000
	46,24,800	45,38,800
Assets:		
Goodwill		2,00,000
Plant and Machinery	11.29,500	11,62,000
Buildings	14,85,000	14,42,500
Stocks	11,10.400	9,73,700
Sundry Advances	23,150	7,350
Debtors	8,51,750	7,26,250
Cash at bank	25,000	27,000
	46,24,800	45,38,800

The following additional information is obtained from the general ledger.

a) During the year ended 31st December 1992 an interim dividend of Rs. 2,60,000 was paid.

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- b) The assets of another company were purchased for Rs. 6,00,000 payable in fully paid shares of the company. These assets consisted of stock Rs. 2,16,400 machinery Rs. 1,83,600 and Goodwill Rs. 2,00,000. In addition, sundry purchases of plant were made totalling Rs. 56,500.
- c) Income Tax paid during the year amounted to Rs. 2,50,000
- d) The net profit of the year before tax was Rs. 6,25,300.`

You are required to prepare a statement showing the sources and application of funds for the year 1992 and a schedule setting out changes in working capital.

(M.Com Final March, 1993 CM 23 /AFM/ANU)

8. Prepare

- a) Statement of changes in working capital and
- b) Funds Flow statement from the following Balance sheets :

Balance Sheet

Liabilities	1996 Rs.	1997 Rs.	Assets •	1996 Rs.	1997 Rs.
Share Capital Equity	40.000	50,000	Goodwill	10,000	8,000
7% Preference	20.000	10,000	Buildings	20.000	15,000
General Reserve	4.000	6.000	Plant	18.000	28,200
Capital Reserve		5.000	Investments	2.000	7.000
Profit & Loss A/c	3.600	5.400	Stock	17.000	15.600
Proposed Dividend	5,600	7.800	Debtors	15,000	21,600
Sundry Creditors	5.000	10,600	Cash	3.400	5.600
Outstanding Exp.	3,600	1.200	Preliminary Exp.	2,000	1.400
Taxation provision	5,600	6,400			
	87,400	1,02,400		87,400	1,02,400

- 1) Depreciation on Plant for the year 1997 is Rs. 3,600.
- 2) A part of building is sold. The profit is transferred to capital Reserve
- 3) A part of the plant was sold in Jan. 1997 for Rs. 2,400. Its book value was Rs. 3,000
- 4) An interim dividend is paid in 1997 Rs. 2,000.

9. Prepare a Funds Flow Statement of INDRAJA BUSINESS CORPORATION from the following : Balance Sheet as at 1st January and 31st December 1997

	January 1, 1997 Rs.	December 31, 1997 Rs.
Cash and Bank	40,000	44,400
Accounts Receivable	10,000	20,700
Inventories	15,000	15,000
Land	4,000	4,000
Business Premises	20,000	16,000
Plant & Equipment	15,000	17,000
Accumulated depreciation	(5.000)	(2.800)
Patents and trade marks	1,000	900
Total Assets	1,00,000	1,15,200
Current liabilities	30,000	32,000
Bonds payable	22,000	22,000
Bonds payable discount	(2,000)	(1,800)
Capital Stock	35,000	43,500
Retained Earnings	15,000	19,500
Total Liabilities	1,00,000	1.15,200

Additional Information :

- a) Income for the period Rs. 10,000
- b) A building that costs Rs. 4,000 and which had a book value of Rs. 1,000 was sold for Rs. 1.400
- c) The depreciation charge for the period was Rs. 800
- d) There was a issue of capital stock for Rs. 5,000
- e) Cash dividends of Rs. 2,000 and bonus shares of Rs. 3,500 were declared. (M.Com Final March, 1998 /AFM/ANU)

10. The following are the summarised balance sheet of Videocon India Ltd., as at 31" December 1990 and 1991

Liabilities	31-12-90 Rs.	31-12-91 Rs.	Assets	31-12-90 Rs.	31-12-91 Rs.
Share capital Equity Shares	1,00,000	1,30,000	Goodwill		10,000
General Reserve	25,000	25.000	Land & Buildings	56,475	58,100
Profit & Loss A/c	19,845	20,610	Plant & Machinery	74,250	72,125
Sundry Creditors =	19,750	20,568	Closing stock	55,520	48,685
Bills Payable	16.890	5,762	Trade Debtors	43,745	36,680

Acharya Nagarjuna University 2.25 Centre for Distance Education						
Bank Overdraft Provision for Taxation	29/55 20.000	25,000	Cash at bank & hand	1,250	1,350	
Troviolettion raxation	2,31,240	2,26,940		2,31,240	2,26,940	

Additional Information:

- a) During the year Income Tax was paid Rs. 12,500 and interim dividend 13,000
- b) Videocon India Ltd., purchased the assets of Sinclair Limited by issuing Rs. 30,000 fully paid shares. The assets of Sinclair Ltd., are plant and Machinery Rs. 9,000, inventory 11,000.
- c) Other Plant purchased during the year Rs. 2.800.

You are required to prepare funds flow statement for the year 1991

(M.Com Final March, 1992 /AFM/ANU)

11. The Financial position of M/s. X and Y on January Is and December 31st 1986 was as under

Liabilities	1 January Rs.	31 Dec Rs.	Assets	1 January Rs.	; 31 Dec Rs.
Current Liabilities	36,000	40,600	Cash	4,000	3,600
Loan from M/s X		20,000	Debtors	35,000	38,000
Loan from Bank	30,000	25,000	Stock	25,000	22,000
Due to Hire Purchase		20,000	Land	20,000	30,000
Capital	1,48.000	1,54,000	Buildings	50,000	55,000
			Machinery	80,000	86,000
			Delivery Van '		25,000
	2,14,000	2,59,600		2,14,000	2,59,600

The van was purchased in December, 1986 on Hire purchase basis - a payment of Rs. 5,000 was made immediately and the balance is to be paid in 20 monthly installments of Rs. 1000 each together with interest at 12% p.a. During the year the partners withdraw Rs. 26,000 for personal expenses. The provision for depreciation against machinery as on 1-1-86 was Rs. 27,000 and on 31-12-86 Rs. 36,000

You are required to prepare the cash flow statement. Show also the fund flow statement.

(M.Com Final March, 1997 /AFM/ANU)

12. The following are the summaries of the Balance Sheets of Aravind Ltd., as at 31 $^{\rm 51}$ December, 1995 and 1996.

1995 Rs.	1996 Rs.	Assets	1995 Rs.	1996 Rs.
2,00,000	2,50,000	Land & Buildings	2,00,000	1.90.000
50,000	60,000	Plant	1.50,000	1.74,000
30.500	30,600	Stock	1.00,000	74,000
70,000		Debtors	80,000	64,200
	Rs. 2,00,000 50,000 30.500	Rs. Rs. 2,00,000 2,50,000 50,000 60,000 30.500 30,600	Rs. Rs. 2,00,000 2,50,000 Land & Buildings 50,000 60,000 Plant 30.500 30,600 Stock	Rs. Rs. Rs. 2,00,000 2,50,000 Land & Buildings 2,00,000 50,000 60,000 Plant 1.50,000 30.500 30,600 Stock 1.00,000

Advanced Financial A	26	Sta.of Changes Fi	nancial Position		
Creditors	1,50,000	1,35,200	Cash	500	600
Provision for Taxation	30,000	35,000	Bank		8,000
	5,30,500	5,10,800		5,30,500	5,10,800

Additional Information :

- a) Depreciation was written off on plant Rs. 14,000 in 1996.
- b) Dividend of Rs. 20,000 was paid during 1996
- c) Income Tax provision made during the year was Rs. 25,000
- d) A piece of land has been sold during the year at cost.

Prepare a statement of sources and application of funds for the year 1996 and a schedule of changes in working capital.

13. The following are the summarized Balance Sheets of Progress and Fast Ltd. as on 31st December 1987 and 31st December 1988.

31st	Decem	ber
------	-------	-----

	0.01-	
Assets:	Rs.	Rs.
Goodwill		2,00,000
Plant and Machinery	11,29,500	11,62,000
Buildings	14,85,000	14,42,500
Stock	11,10,400	9,73,700
Sundry Advances	23,150	7,350
Sundry Debtors	8,51,750	7,26,250
Cash at Bank	25,000	27,000
	46.24,800	45,38,800
	1987	1988
Liabilities :	Rs	Rs
Share Capital	20,00,000	26,00,000
Reserves	5,00,000	5,00,000
Profit & Loss a/c	3,96,900	4,12,200
Sundry Creditors	3,95,000	4,11,350
Bills Payable	3,37,800	1,15,250
Bank Overdraft	5,95,100 ———	
Provision for Tax	4,00,000	5,00,000
	46,24,800	45,38.800
-		

2.2

The following additional information is obtained from the General ledger

- a) An interim dividend of Rs. 2,60,00 was paid during the year ended 31st December 1988
- b) The assets of another company were purchased for Rs. 6,00,000 payable in fully paid shares of the company. These assets consisted of stock Rs. 2,16,400, Machinery Rs. 1,83,600 and Goodwill Rs. 2,00,000. In addition, Sundry purchase of plants were made totalling Rs. 56,500
- c) Income tax paid during the year amounted to Rs. 2,50,000
- d) Net profit for the year before tax was Rs. 6,25,300

You are required to prepare a statement showing sources and uses of Funds for the year 1988.

(M.Com Filial March, 1990 /AFM/ANU)

14. The financial position of M/s. A and B on January 1987 and 31s' December 1987 was as follows :

	1s¹ January	31st December
	Rs.	Rs.
Cash	4,000	3,600
Debtors	35,000	38,400
Stock	25,000	22,000
Land	20,000	30,000
Buildings	50,000	55,000
Machinery	80,000	86,000
	2;14,000	2,35,000
	lst January Rs.	31 st December Rs.
Current Liabilities	36,000	41,000
Mrs. A's Loan	30,000	20,000
Loan from Bank	30,000	25,000
Capital	1,48,000	1,49,000
	2,14,000	2,35,000

During the year, the partners withdrew Rs. 26,000 for domestic expenditure. The provision for depreciation against machinery as on 1-1-1987 was Rs. 27,000 and on 31-12-1987 was Rs. 36,000

You are required to prepare the funds flow statement.

(M.Com Final March, 1998 /AFM/ANU)

2.15 Suggested Readings:

Advanced Accountancy
 Advanced Accountancy
 Advanced Accountancy
 S.P. Jain & K.L. Narang

	dvanced Financial Acc 2.28	Sta.of Changes Financial Position
3.	Management Accounting & Financial Control	S.N. Maheswari
4 .	Management Accounting	Khan & Jain
5 .	Management Accounting	S.N. Maheswari
6 .	Accounting & Financial Management	Sashi K. Gupta & R.K. Sarma
7.	Accounting for managers	G. Prasad & V. Chandrasekhara Rao
8 .	Management Accounting Tools & Techniques	N. Vinayakam & I.B. Sinha
9 .	Management Accounting	J. Made Gowda
		Dr. P. L. Narasimha Rao

Lesson-3

RATIO ANALYSIS

Objectives

To know the importance of Ratio Analysis

To understand the Meaning and Definition of Ratio Analysis

To know the Classification of Ratios.

To know how to calculate various ratios from the available data

Structure

- 3 1 Introduction
- 3.2 Definition
- 3.3 Classification of Ratios
- a. Profitability Ratios
- b. Solvency Ratios
- c. Turnover Ratios
- 3.4 Uses of Ratio Analysis
- 3.5 Limitations
- 3.6 Problems and solutions
- 3.7 Summary
- 3.8 Key Words
- 3.9 Self Assessment Questions & Exercises

3.10 Suggested Readings

3.1 INTRODUCTION

A successful physician. before prescribing medicines to his patients. makes a thorough diagnosis through several required and essential tests. A conclusion can be derived based on these medical tests including the use of certain tools viz. stethoscope. Thermometer, blood report. E.C.G. etc. Likewise an adroit Financial Manager tries to understand the very standard and position of his business based on various statements. reports and financial analysis.

Indeed. one of the significant and effective steps of accounting is the analysis of financial statements. The very object of this analysis is to understand the importance and also the meaning of the financial data. It helps the manager to know the strength and weakness of business. The following tools are used for a meaningful financial analysis..

- Comparative Statement Analysis.
- Common size statements

Advanced Financial Acc 3.2 Ratio Analysis

Trend Analysis

Ratio Analysis

Fund Flow Analysis

Cash flow Analysis

3.2. Definition:

The formal definition of ratio is The indicated quotient of two mathematical expressions". But the operational definition is different. It is the "relationship between two financial values". To make it clear the word relationship stands for a financial ratio which is the result of two mathematical values

25 atio is simply an expression of one number in terms of another. It may also be defined as the relationship or proportion that one amount bears to another, the first number being the numerator and the latter denominator. Another explanation of the ratio may he the relation of the latter to the earlier amount and computed by dividing the amount for the latter date or period by the amount of the earlier date of period.

3.3. Classification of Ratios:

Classification of Ratios

Ratio analysis is a powerful tool for studying the financial position of the organisation. There are different persons who are interested in assessing the ratio analysis in different ways.

- Owners (shareholders) are interested in knowing the profitability of the firm and long term solvency \ of the firm.
- 2. Suppliers of goods are interested in knowing the liquidity position of organisation.
- Government is interested in knowing the Equity of organisation and effective utilization of firm's capacity.
- 4. Management is interested in knowing the profitability and efficiency in financial settlements.

Ratios can be classified different ways:

1. Classification on the basis of source of data

Traditional Classification

- a) Profit and Loss Account Ratios
- b) Balance sheet Ratios
- c) Combined Ratios

2. Classification according to need

- To know the profits (profitability Ratio)
- To know the long term financial position (solvency ratio)
- To know the efficiency and effectivity utilization(Turnover Ratio)
- To know the short term, financial position (Liquidity Ratio)

Investment Ratios:

- a) Earning per share
- b) Dividend Yield Ratio
- c) Dividend per Ratio
- d) Return on investment

Expenses Ratios:

4) Cost of goods sold ratio

Amounts available to

<u>Equity Shareholders</u>

No. of Equ. Shares

Dividend per share

Market Value per share

Dividend payable

No. of ordinary shares

It reveals the profit available to ordinary shareholders

It is very significant to the new investors

It indicates to amount of dividend to be paid to ordinary share holders

Return x 100 Investment

Cost of goods sold Sales x 100

Cost of goods sold -Op. Stock + purchases Manufacturing Exp. - cl. stock) These ratios make us know the relationship between various expenses and sales.

The lower the ratio. the greater is the profitability and higher the ratio, the lower is the profitability



5) Operating Expenses Ratio

i) Office & Administration Expenses Ratio

Selling & Distribution Expenses Ratio

iii) Financial Exp. Ratio

6) Operating Ratio

7) Non-Operating Expenses Rati

b. Liquidity Ratios

Category/Name of the Ratio For solvency

a) Current Ratio

Operating Expenses

Sales

Operating Expenses = (Office Add. Exp Selling Distribution Exp. + Financial Exp)

Office & Admn. Exp. x 100

Sales

Selling & Distr. Exp x 100

Sales

Financial Expenses

Sales

80 Cost of goods sold +

Operating Exp.

x 100

x 100

Non -- Operating Exp.
Sales

Liquidity (or) Solvency Ratio

Formula

77 Current Assets

Current lia lities-Note : 1) Current Assets cash in hand + cash at bank + sundry debtors + B/R +stock + prepaid exp.

+short term Investment etc.,

2) Current Liabilities Sundry Creditors + B/P + OD + outstanding Exp.

Operating ratio tells us the efficiency of the conduct of business operation. A high ratio means the operating expenses are high and margin is less.

Ratio Analysis

Therefore the lower the ratio the higher is the position.

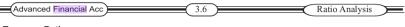
Significance

This ratio explains whether the

firm is able to meet short term obligations or not. The higher ratio is an indication of the soundness of the organization.

The Current Ratio tells us the ability of the firm to meet its short term obligation

ratio helps us in asses g the risk factor that arises in the use of debt capital in capital structure.



Turnover Ratios:

Turnover Ratios Significance Category/Name of Ratio Formula 1. Turnover Ratios Cost of goods sold a) Stock Turnover Ratio It reveals the movement of stock Average stock in the organisation. If the no. of times is more it indicates the fast movement of stock. If the no. is less it indicates slow movement, of stock in the organisation. Credit Avg. Debtors & Bills b) Debtors Turnover Ratio This ratio gives a picture of how receivable many times debtors made payments to the firm. Credit purchases Avg. Creditors & Bills c) Creditors Turnover Ratio This ratio focuses light on how Payable many times credit facility is allow to the firm. The lower the ratio the higher the facility of credit Sales (or)cost of Sales d) Working capital Turnover Ratio To know the relationship between :Working Capital working capital and sales. Sales (or)cost of Sales To know the effective utilization of e) Fixed Assets Turnover Ratio Fixed Assets fixed assets in production Sales f) Total assets Turnover Ratio To test the managerial efficiency Capital Employed and business performance. This ratio measures how efficiently assets are employed overall.

3.4. Uses of Ratio Analysis:

The ratio analysis is not only useful for the Financial Managers but also to different persons at different levels. viz. the supplier, the banker, the investigations, the shareholders and the fellow business men. Because based on this analysis one can have a bird's eye view of the financial condition of a

It is an important technique of financial analysis by which the process of determining and presenting the relationship of single item or group of items can be made effectively.

It is a powerful tool to forecast the company position in the years to come because the ratios are calculated for anumber previous years and the trend of the company or firm can be perceived.

It is highly useful in locating the weak spots, trends, aspects with overall performance of the firms so that this weakness in the financial structure can be connected by taking up suitable remedies.

These statements are to be thoroughly studied before decision making. As a matter of fact the information in the financial statement cannot give such insight as provided by the ratio analysis.

This analysis helps in co-ordinating which is very much required in business management.

Effective control of the business is possible also when ratio analysis is understood. The actuals and standards can be compared for the purpose of control.

3.5. Limitations:

Limitations of Ratio Analysis

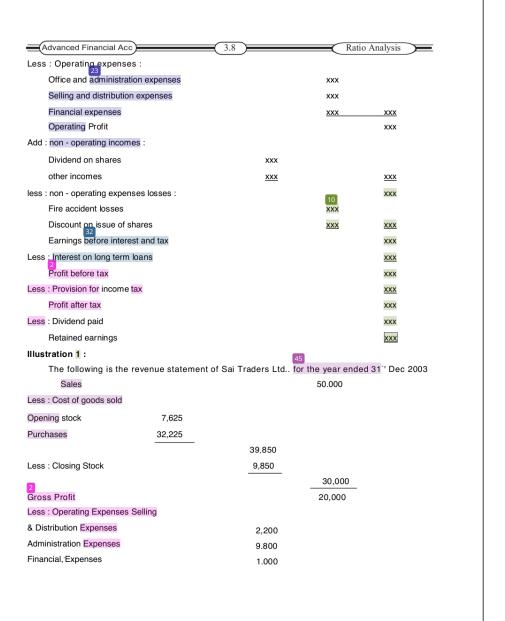
- Though a powerful tool of financial management, ratio analysis cannot convey the real picture because of limited use of single ratio.
- Based on the past ratios future of a company can be estimated.
- Lack of adequate standards speaks of difficulty that arises in the interpretation of ratios.
- Ratio analysis is not an end. It is only a mean. Different persons interpret the same ratios in different ways.
- · As the price level changes, the interpretation of ratios becomes invalid.
- Changing in accounts procedure by the firm makes ratio analysis confusing and misleading, because different firms have their own accounting procedures.
- Ratio Analysis is only a quantitative analysis but not a qualitative analysis.

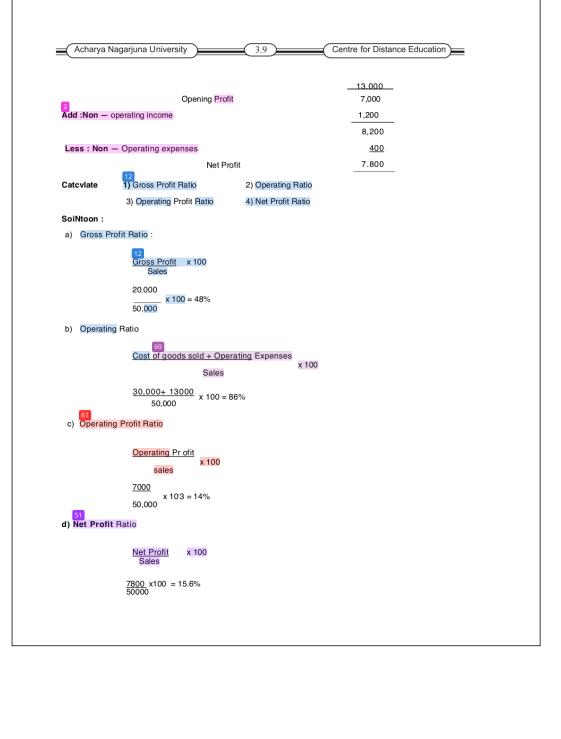
3.6. Problems and Solutions:

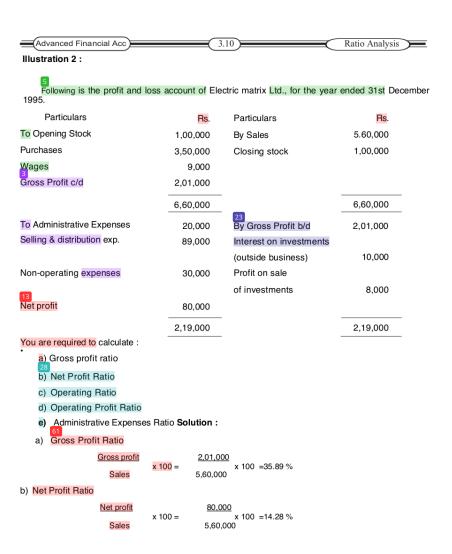
The following is the proforma of Revenue statement.

Revenue Statement

Particulars		Rs	Rs.
Gross Sales		xxx	
Less : Sales returns		XXX	
26 Net Sales	xxx	XXX	xxx
Less . Cost of goods sold :			
Opening stock	xxx		
Add: Purchases	xxx		
Manufacturing expenses	×xx		
Less : Closing Stock Gross	XXX		xxx
Profit			xxx

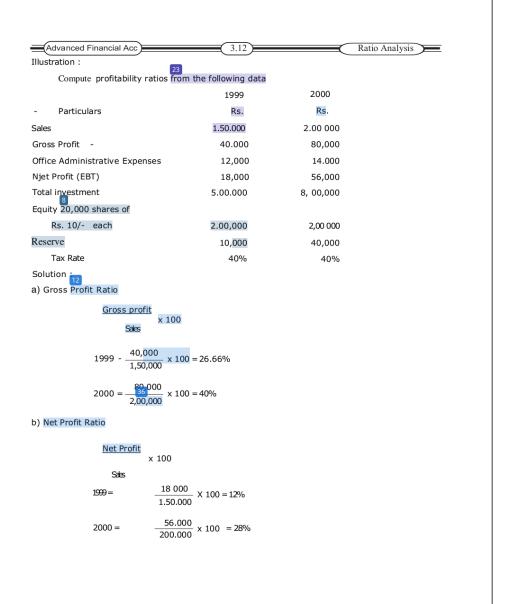






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Acharya Nagarjuna University
                                                                      Centre for Distance Education
  c) Operating Ratio
                   Cost of goods sold + Operating Expenses x 100
                                       Sales
      Cost of goods sold = sales - gross profit = 5,60,000 - 2,01,000 (or)
Cost of goods sold

Opening stock
                                         1,00,000
      (+) purchases
                                         3,50,000
      (+) Wages
                                            9,000
                                         4,59,000
      (-) Closing Stock
                                         1,00,000
      Cost of goods sold
                                         3,59,<mark>000</mark>
                   3,59,<mark>000</mark> + (20,000 + 89,000)
                                                  x 100 = 83.57%
                              5,60,000
 e) Operating Profit Ratio
                   Operating Profit
                                      x 100
                         Sales
     Operating expenses:
                                             20,000
     Administrative Expenses
     Selling & Distribution Expenses =
                                             89,000
                                             1,09,000
     Note:
     Operating Profit =
                                Sales — (cost of goods sold + Operating Expenses)
                               5,60,000 - (3,59.000 + 1,09,000)
                               5,60,000 - 4,68,000 = 92.000
                                   \frac{92,000}{5,60,000} \times 100 = 16.42\%
     Administrative Expenses Ratio
                           Administrative Expenses
                                                        x 100
                                       x 100 = 3.57%
                           5,.60,000
```



c) Return on Investment

10,800

x 100 = 21.6% 5.00,000

 $33,600 \times 100 = 4.2\%$

Working Note

	1999	2000
EBT	18.000	56,000
Less: Tax 40%	7,200	22,400
	10,800	33,600

illustration 4 :

23
The capital of VSP ltd is as follows

Rs.

3,00,000 9% preference shares of Rs. 10. each Equity shares of Rs. 10 each 8,00,000 Total 11,00,000

The accountant has provided the following information:

Profit (after tax at 60%) is Rs. 2.70 000: Depreciation Rs. 60,000. Equity dividend paid 20%, market price of equity share Rs. 40.

With the help of the above information calculate the following :

- a) Dividend yield on equity shares.
- b) Cover for the preference and equity shares
- earnings per equity shares
- d) price earning ratio.

Solution:

Profits after Taxation (at 60%) 2,70.000 Less: Preference dividend (3:00,000Y9%) 27,000 Earnings available to equity shareholders 2,43,000 a) Dividend yield equity shares =

x 100

Market price per share

Dividend per share = equity share per value x rate of dividend

10 x 20/100= Rs.2 /-

Market price of equity share = Rs. 40/-

Dividend yields on equity shares = 2/40 x 100 = 5%

b) Computation of Dividend coverage to preference share holders

 $\frac{\text{Profits after taxation}}{\text{Preference dividend}} = \frac{2,70,000}{27,000} = 10 \text{ times}$

2) Dividend coverage to Equity share holders :

Pr ofits after taxation - Preference dividend

Equity Dividend

Note:

Equity Dividend = Equity share capital value x rate of dividend

 $80,000 \times 20\% = 1,60,000$

2,43,000 = 1.5 times

c) Earnings per equity share :

Amount availability equity shareholders

No. of equity shares

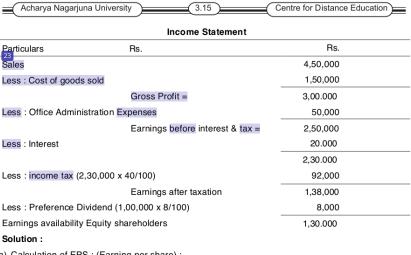
$$=\frac{\cancel{2,40,000}}{80,000}=3.04$$

d) Price Earning Ratio

 $\frac{\text{Market price per share}}{\text{Earnings per share}} = \frac{40}{30.4} = 13.1\%$

Illustration 5 :

The following information is supplied sales Rs. 4.50.000/-. cost of goods sold Rs. 1.50,000., office a fininistration overheads Rs. 50.000, Interest Rs. 20.000. Corporate tax 40%, equity shares 40.000 of Rs. 10/- each 8%, preference shares of Rs 50/- each 2000 shares. Calculate EPS. DPs (50% payout ratio) P/E ratio (MPS = Rs. 15/-).



a) Calculation of EPS : (Earning per share) :

Earnings availability to equity shareholders

Earning per share = No of equity shares

Calculation of Price Earnings Ratio

Price Earning Ration = Market Price Per share = 15 Earnings Per shares 3.25

h) Calculation of DPS = (dividend per share)

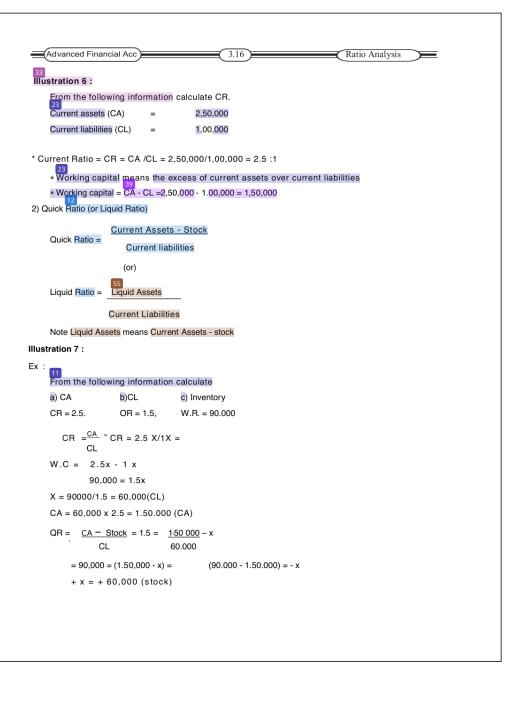
Dividend paid to share holders

Dividend per share = No. of equity shares

1,30,000 Earnings availability equity share holders Pay out (50%) 65,000

Retained Earnings 65,000

DPS = 65,000----- = 1.62 40,000



3) Absolute Liquid Ratio (or) Cash Ratio:

Note 1 : Absolute Liquid Assets = Cash in hand + Cash at Bank + Marketable Securities (or) Temporary investments

4. Proprietary Ratio (Fixed Assets to Proprietary Funds)

Fixed Assets

Proprietary Funds

illustration — 8

From the following information you are required to prepare balance sheet of company and statements of proprietary funds.

1) Current ratio 2.5

- 2) Liquid Ratio 1.5
- 3) Working Capital 90,000
- 4) Proprietary Ratio (fixed assets / proprietary funds) 0.75: 1
- 5) Reserves and Surplus 1,00,000
- 6) Bank overdraft 10,000

Assuming that there is no long term liabilities & Fictious Assets

a) Calculation of Current assets and current liabilities :

$$CR = \frac{CA}{CL} = \frac{2.5x}{Ix}$$
W.C. = CA - CL = 90,000 = (2.5x - 1x)
= 1.5 x = 90,000
$$x = 90,000 / 1.5 = 60,000 (CL)$$
CA = 2.5 (60,000)
$$CA = 60,000 / 2.5 = 1,50,000$$

b) Calculation of Stock

Liquid Ratio =
$$\frac{CA}{CL} = \frac{(CA - Stock)}{CL} = 1.5$$

 $\frac{1.5}{1} = \frac{(1.50,000 - x)}{60,000}$

3 18

Ratio Analysis

90,000 = 1,50,000 - x

x = 1,50,000 - 90,000 = 60,000 (stock) c

c) Calculation of fixed assets and proprietary funds

 $\begin{array}{ccc} \text{Proprietary ratio} & = & \underline{Fixed \ Assets} \\ & & \text{Proprietary funds} \end{array}$

$$PR = \frac{FA}{PF} = \frac{0.75x}{Ix}$$

Working Note:

B/S (Model)

Liabilities		Assets	
Proprietary Funds	xxx	Fixed Assets	xxx
Current Liabilities	xxx	Current Assets	xxx
		l .	

(or)

B/S

TL = TA

(1x) PF xxx (1x) F (3,60,000) x

FA XX (75x) WC xx (90,000) TA

TL = TA

Ix = 0.75x + 90,000

(lx - 0.75x) = 90,000

0.25x = 90,000

x = 3,60,000 (1x = Proprietary funds)

F.A. (Fixed Assets) $-3,60,000 \times 0.75 = 2,70,000$

a) Balance Sheet of Company

Liabilities		Assets		
Share Capital	2,60,000	Fixed Assets	2,70,000	
Reserves & Surplus	1,00,000	Current Assets	90,000	
Current Liabilities	60,000	stock	60,000	
	4,20,000		4,20,000	

			_
Acharva	Nagarjuna	University	

3 19

Centre for Distance Education

b) Statement	of proprieta	rv funds

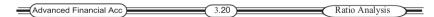
Particulars	Rs.	Rs.	Rs.	Rs.
Proprietary Funds :				
Equity share capital			2,60,000	
Reserves & Surplus			1,00,000	3,60,000
Investment of funds :				
Fixed Assets			2,70,000	
Current assets : stock	60,000			
Liquid assets	90,000	1,50,000		
Less : Current Liabilities :				
Bank overdraft	10,000			
Creditors	50,000	60,000	90,000	3,60,000

Illustration 9:

Extracts from the financial accounts of XYZ Ltd. are given below :

		Year I	`	Year II
	Assets	Liabilities	Assets	Liabilities
	Rs.	Rs.	Rs.	Rs.
Stock	10,000		20,000 —	
Debtors	30,000		30,000 —	
Cash in hand	20,000		15,000 —	
Payment in advance	2000			
Sundry Creditors		25.000		30,000
Bills payable		15.000		12,000
Bank overdraft				5.000
	62.000	40.000	65,000	47,000

Sales amounts to Rs. 3.50,000 in the first year and Rs. 3,00,000 in the second year. You are required to comment on the liquidity position of the company.



Calculation of Current Ratio:

Particulars	Year 1	Year 2
	Rs.	
Current Assets :		
* Stock	10,000	20,000
* Debtors	30 000	30,000
* Cash in hand	20,000	15,000
Payment in advance	2,000	
Total Current Assets	62,000	65,000
Current Liabilities :		
* Sundry Creditors	25,000	30,000
* Bills Payable	15,000	12,000
 Bank Overdraft 		5,000
	40,000	40,000

Year 1 -
$$\frac{62,000}{40,000}$$
 = 1 5 :1

Year 2
$$\frac{65,000}{47.000}$$
 = 1.4:1

 $\textbf{Comment:} \ \, \text{The desirable estimates the solvency position of the firm that was in deterioration.}$

b) Calculation of Quick Ratio:

Current Assets - Stock

Current liabilities

$$Year 1 = \frac{62.000 - 10,000}{40,000} =$$

$$Year 2 = \frac{65,000 - 20,000}{47,000} = 0.95:1$$

Comment: As be accounting norms the liquid ratio shall be 1:1 in the first year the quick is more than 1:1 & in the second year the ratio is 0.95: 1. This is not a good sign for solvency of the organisation.

c) Calculation of Debtors turn over ratio :

Credit Sales

Debtors Turn. over Ratio = Average Debtors

Year 1 =
$$\frac{3,50,000}{30,000}$$
 = 11.66 times

In Terms of Days

Year 2 = DTR -
$$\frac{3,00,000}{30,000}$$
 = 10 times

Comment: the debtors turn over ratio is in the first year 11.66 (31 days) in second year 10 times (36.5 days). This iS not a good sign for solvency of the organisation.

Illustration 10:

The following is the Balance Sheet of Sai Ltd., for the year ending 31s⁽ December 2003.

Liabilities	Rs	Assets	Rs.
9% Preference share capital	4,00,000	Goodwill	50,000
Equity share Capital	9,00,000	Hand & Building	7,00.000
8% Debentures	4,00,000	Plant	7,50.000
Long term loan	90,000	Furniture & Fixture	2,00.000
ills payable	70,000	Bills receivable	75,000
undry Creditors	60,000	Sundry Debtors	85.000
B nk overdraft	40,000	Bank balance	50;000
Outstanding Expenses	10,000	Short term investments	30,000
		Prepaid Expenses	6,000
		Stock	24,000
	19,70,000		19,70,000

Advanced Financial Acc 3.22 Ratio Analysis

Calculate: a) Current Ratio b) Liquid Ratio

c) Absolute Liquid Ratio

d) Working Capital

Solution:

Calculation of Current Ratio

Current Ratio Current Assets
Current liabilities

Note: Current Assets:

Bills Receivable 85,000 Bank Balance 50,000 Sundry Debtors Short - term Investment 30,000 Prepaid Expenses 6,000 24,000 Stock 2,70,000

Current Liabilities:

Bills Payable 70,000 Sundray Creditors 12 Bank overdraft 60,000 40,000 Outstanding expenses 10,000 1,80,000

Current Ratio = $\frac{2,70,000}{1,80,000}$ = 1.5 : 1

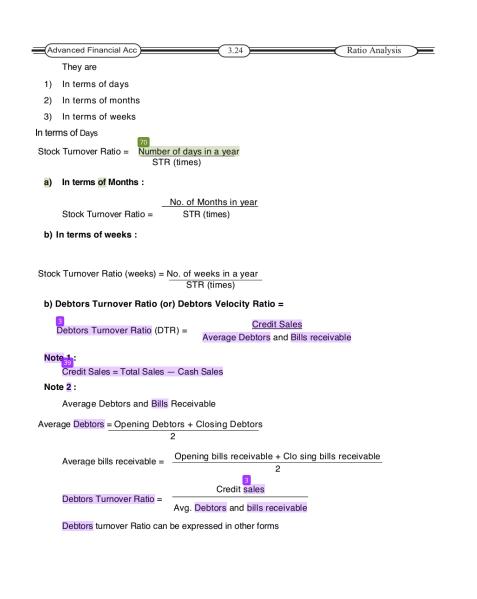
 $\frac{2,70,000 - 24,000}{1,80,000} = \frac{2,46,000}{1,80,000} = 1.36:1$

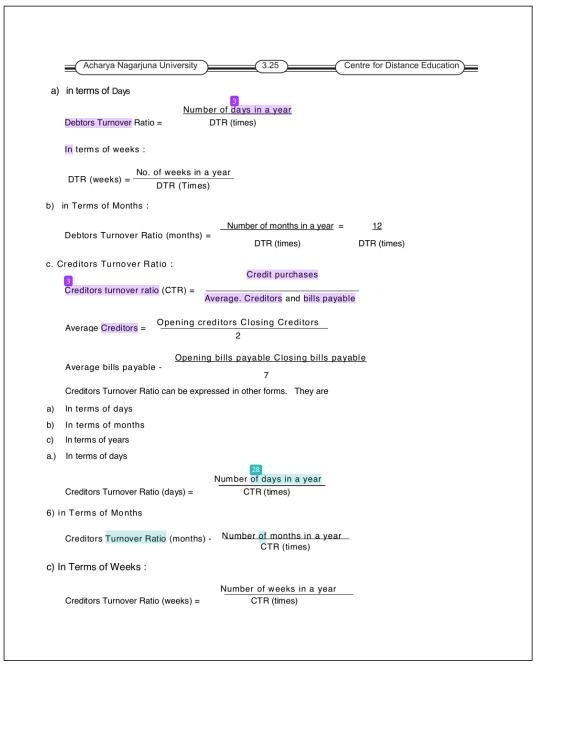
Calculation of Absolute Liquidity Ratio

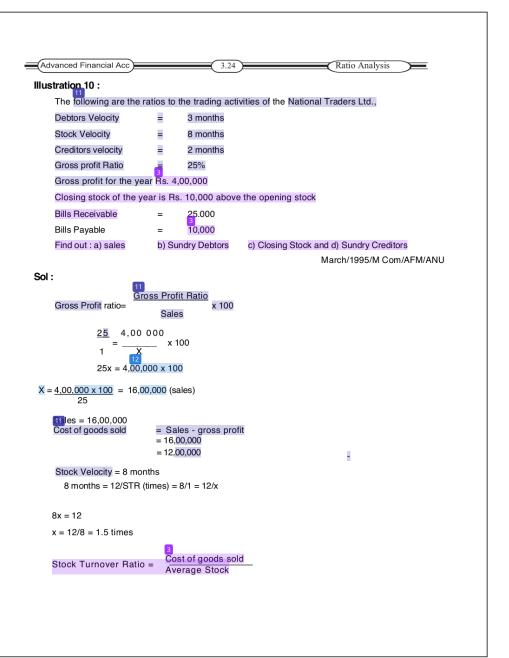
Absolute Liquid Ratio

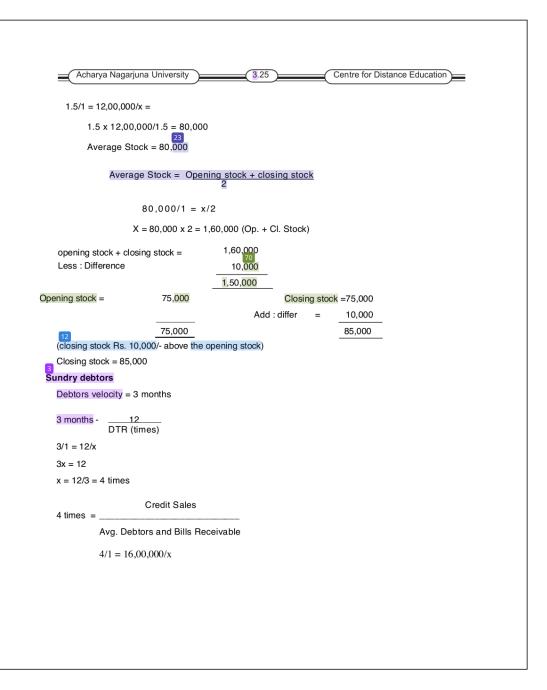
Absolute Liquid Ratio = Current Liabilities

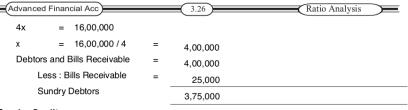
```
Acharya Nagarjuna University
                                                                 Centre for Distance Education
Note:
Absolute Liquid Assets = Cash in hand + Cash at bank + marketable securities
Absolute Liquid Ratio
Bank Balance
                           50,000
Short term investments 30,000
                            80,000
                        80,000
Absolute Liquid Ratio -
                                   = 0.44: 1
                        1,80,000
Calculation of working capital :
Working Capital = Current Assets - Current Liabilities
= 2,70,000 - 1,80,000
= 90,000
                                     Turn Over Ratios
a. Turn Over Ratios :
Stock Turnover Ratio = (or) Stock velocity Ratio (or) Inventory Turnover Ratio :
                               Cost of goods sold
(STR) Stock Turnover Ratio = Average stock
Note 1:
Cost of goods sold = Opening stock + purchases - closing stock
Note 2:
Cost of goods sold = Sales - Gross profit
Note 3:
                    opening stock + closing stock
Average Stock =
1) If cost of goods sold = 1,00,000, Average stock = 20,000
then what will be the stock turnover ratio?
Stock Turnover Ratio = Cost of goods sold
Average stock
1,00,000 = 5 \text{ times}
20,000
Stock Turnover Ratio can be expressed in different forms.
```











Sundry Creditors

Creditors velocity 2 months

2 months =
$$\frac{12}{\text{CTR (times)}}$$
$$2/1 = 12/x$$
$$2x = 12$$
$$x = 12/2 = 6 \text{ times}$$

Credit purchases

Creditors Turnover Ratio = Avg. Creditors and Bills Re ceivable

Purchases = Closing of goods sold + Clo. Stock - Opening stock

= (12,00,000 + 85,000) - 75,000 = 12,10,000

CTR
$$\frac{12,10,000}{x}$$
 = 6 times
= 12,10,000/x = 6/1
6x = 12.10,000
x = 12,10,000 / 6 = 2,01,667

Creditors and Bills payable = 2,01,667

Less: Bills payable = 10,000

Sundry creditors 1,91,667

3.7. SUMMARY

In order to take proper and immediate decisions regarding the financial efficiency of a concern, one feels the necessity of financial statements. But these statements must suitably be analysed for which ratio analysis is the best tool. The main purpose of this efficient tool is to measure the previous performance of the concern so that the future trends can be projected. It helps in taking relevant steps to overcome limitations if any.

3.8. KEY WORDS:

1. Ratio The relationship between two financial values.

2. Gross Profit ${\sf Sales-Cost\ of\ goods\ sold}.$

3. Equity proprietory funds.

long term and short term liabilities Debt

The aggregate of office and administrative expenses, selling & distribution and financial expenses. Operating expenses

6. Financial Leverage The use of fixed rate of sources along with owners equity is

described as financial leverage.

3.9. Self - Assessment Questions and Exercises

- What is meant by Ratio Analysis? Explain the importance in the analysis and interpretation of financial data.
- Explain "the classification of ratio analysis". 2.
- 3. What are the limitations of Ratio Analysis.
- 4. Below given are the sum m armed Balance sheet as on 31' March 1982 and profit and loss a/c. for the year ended 31st March 1992

Balance Sheet as on 31st March 1982

	Rs.	3	Rs.
Share Capital (Shares of		Fixed Assets	11,00,000
Rs. 10 each)	4,00,000	Liquid Assets	3,00,000
Reserves & Surplus	3,00,000	Current Assets	5,00,000
Overdraft	4,00,000		
Current Liabilities	8,00,000		
	19,00,000		19,00,000
6 Profit	& Loss Account for	the year ended 31-03-1982	
	Rs.	23	Rs.
To opening stock	2,00,000	By sales less returns	28,00,000
To Purchases less returns	22,00,000	By Closing stock	3,00,000
To Expenses	3,00,000		
To Net profit	4,00,000		
	31,00,000		31,00,000

Advanced Financial Acc

3.28

Ratio Analysis

You are required to comment on the general financial condition of the company, taking into account relevant ratios.

a) Current Ratio 625 :1

b) Liquid Ratio 0.25: 1

c) debt Equity Ratio 0.57: 1

d) Proprietary Ratio 1.57: 1

e) Gross profit ratio 25%

f) Net profit ratio 14.3%

5. The following are the summarised Profit & Loss Account for the year ending 30th June 1983 and the Balance Sheet as on that date.

		Drofit o	and Loss Account		_
			and Loss Account		
		Rs.		Rs.	
To Opening stock		99,500	By Sales	8,50,000	
To purchases		5,45,250	By Closing Stock	1,49,000	
To Incidental Expen	ses	14,250			
To Gross Profit		3,40,000			
		9,99,000	<u>-</u> 5	9,99,000	_
To Operating Expen	ses		By Gross profit	3,40,000	
Printing & dist.	30,000		By Non Operating Income		
To Administration,	50,000		Interest	3,000	
To Finance	15,500		Profit on sale of		
2		1,95,000 sha	ires	6,000	9,000
Non — operating ex	penses :				
Loss on Sale of asse	ets	4,000			
Profit		1,50,000			
		3,49,000		3,49,000	

Balance Sheet				
Liabilities	Rs.	Assets	Rs.	
Share Capital (2000 Equ	ity	Land and Buildings	1,50,000	
Shares of 100)	2,00,000	Plant & Machinery	80,000	
Reserves	90,000	Stock	1,49,000	
Profit & Loss A/c	60,000	Sundry Debtors	71,000	
Current Liabilities	1,30,000	Cash and Bank Balance	30,000	
	4,80,000		4,80,000	

From the above calculate the following ratios:

Current Ratio (1.92: 1)

Operating Ratio (82.94%)

Stock Turnover (4.1 times)

d. Return on Total Resources ()

e. Turn over of fixed assets and ()

Turn over of Total Assets ()

Turn over of Total Assets ()

6. The summarised Balance sheets of ABC Ltd., as on 31s' March, 1980, 1981 and 1982 are given

As on 31-" March

	1980	1981 (Rs. In lak	1982 hs)
Paid up capital	194	194	194
Long Term Borrowings	349	440	503
Current Liabilities	R2	54	99
	595	688	796
	1980	1981	1982
8		(Rs. In lak	hs)
Gross Block	355	356	361
Less Depreciation	69	95	122
Net Block	286	261	239
Current Assets	143	199	234
P&L A/c	166	228	323
	595	688	769

From the above particulars compute the following as 31s' March 1980,1981 and 1982

Debt Equity Ratio (negative) (12.46)(negative) а Current Ratio (2.75)(3.69)(2.36)Working Capital 91 lakhs 145 lakhs 135 lakhs Fixed Assets Ratio (0.76)(0.64)(0.64)

7. Some of the ratios in case of Z. ltd. together with the desirable standards are given below. Assess the efficiency of the company.

	For Z Ltd.	Standard
Current Ratio	1.90	2.50
Gross Profit Ratio	.35	.30

Advanced Financial Acc	3.30	Ratio A	nalysis
Fixed Expenses Ratio to Sales	.20	.15	
Variable Expenses Ratio to Sales	.08	.10	
Sales / Capital	4.00	3.00	
Fixed Assets / Long Term Funds	.90	1.00	
Rate of Return on Capital	20%	15%	

8. The following data relates to M/s. Hindu Traders Ltd.

Debtor's Velocity 3 months
Creditor's velocity 2 months
Stock Velocity 8 times
Capital Turnover Ratio 2.5 times
Fixed Assets Turnover Ratio - 8 times
Gross Profit Turnover Ratio - 25%

Gross profit in the year amounted to Rs. 80,000. There is a long-term loan or overdraft. Reserves and surplus amount Rs. 28,000. Liquid Assets are Rs. 97,333. Closing stock of the year is Rs. 2,000 – tore than the opening stock. Bills receivables amount to Rs. 5,000 and Bills payable to Rs. 2,000

Find out :

- a) Sales (3,20.000)
- b) Sundry Debtors (75,000)
- c) Sundry Creditors (38,333)
- d) Closing Stock (31,000)
- e) Fixed Assets, and (40,000)
- f) Proprietor's Funds (1,20.000)
 - 9. From the following details, find out:
- a) Current assets
- b) Current liabilities
- c) Liquid Assets
- d) Stock

Current Ratio: 2.5

Working capital Rs. 60,000/-

(March / 1993 / Ad. Financial Accounting / AFM / ANU)

- a) Current Assets (1,00,000)
- b) Current Liabilities (60,000)
- c) Liquid Assets (60,000)
- d) Stock (40,000)

3.10 SUGGESTED READINGS:

- 1. Advanced Accountancy
 - 2. Advanced Accountancy
- 3 Management Accounting & Financial Control
- 4 Management Accounting
- 5 Management Accounting
- 6 Accounting & Financial Management
- 7 Accounting for Managers
- 8, Management Accounting Tools & Techniques
- 9. Management Accounting

- R.L. Gupta & M. Radhaswamy
- S.P. Jain & K.L. Narang
- S.N. Maheswari
- Khan & Jain
- S.N. Maheswari
- Sashi K. Gupta & R.K. Sarma
- G. Prasad & V. Chandrasekhara Rao
- N. Vinayakam & I B Sinha
- J. Made Gowda

Dr. P. L. Narasimha Rao

Lesson-4

VALUATION OF SHARES



The objective of this Unit is to introduce you with the dimensions of valuation of shares and the need for share valuation. Further it is aimed at explaining you various Methods of share valuation along with illustrations for a greater insight and comprehension.

STRUCTURE

- 4.1. Introduction
- 4.2. Need for Share Valuation
- 4.3. thethods of Valuation
- 4.4. Net Asset Method
- 4.5. Yield Method
- 4.6. Fair Value Method
- 4.7. Role of Fundamental Analysis and Technical Analysis in share valuation.
- 4.63 Conclusion
- 4.9. Self Assessment Questions
- 4.10. Key Words
- 4.11. Further Readings

4.1. INTRODUCTION

Equity Share Capital is one of the prime sources of Company's capital. Shares of definite value are sold to pool up this capital, which is ownership capital with voting rights and ownership control.

Shares are of two types — Equity shares and preference shares. Preference shares are with preferential rights over the equity shares in getting dividend and capital back. The equity shares claim the residue after payment of dividend to perference shares. If no profit is made available, the equity shares may go without dividend. Equity shares are paid with a return solled dividend but such a dividend payment is not obligatory. But dividend, among others, is one of the important determinants of the share price or market value. The resekt value of a share is determined by various factors both internal and external. But always the market value may not truly represent the intrinsic value of the shares. This necessitates valuation of shares. Moreover, vers respect to shares not listed on the stock exchanges cific valuation of shares is needed. But if the shares are listed on the stock exchanges the value of the share is quoted by the market forces and actions of buyers and sellers.

The process of stare valuation is influenced by a number of factors like the purpose of valuation, the nature of business of the company concerned, demand and supply of shares, the Government policy, past performance and growth prospects of the company, the economic climate, divide concerned, reserve position of the company, the investor expectations of the dividend yield compared to the yield prevailing in the market in the same industry. The total profits, earning capacity of the company, goodwill etc., also exert a significant influence on the valuation of shares.

4.2. VALUATION OF SHARES - THE NEED

The market value of shares is readily available many a times especially when the shares are listed on the stock exchanges. But it may not always represent the intrinsic worth of the share. This calls for specific valuation of shares. In addition, the need for valuation of a company's share arises in the following circumstances.

4.2

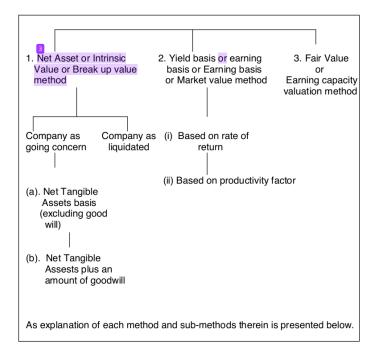
- (a). In the process of amalgamation and reconstruction of companies, it may be necessary to value the shares of the company absorbed or taken over in order to protect the rights of the share holders;
- (b). While advancing a loan against the shares as security;
- (c). When a private company is taken over by the Government in the process of nationalization, the compensation to equity holders is based on the valuation of shares;
- (d). In the case of disinvestments of Government companies also share valuation is a basis.
- (e). The convertible debentures and preference shares when converted to equity, the ratio of equity shares to be issued can be decided only after share valuation.
- (f). when a company is dissolved in which the shares are hold jointly by the partners, valuation of shares becomes necessary for proper distribution of the partnership properly i.e., shares proceeds
- (g). For the purpose of gift tax when shares are gifted by one to the other and also for the purpose of estate duty in case of death of a shareholder and for wealth tax of calculation also valuation of shares is necessary.

4.3. METHODS OF VALUATION

Shares can be valued on different basis. These methods of share valuation can be broadly classified into three. These are

- 1. Net Assets Method
- 2. Field Method
- 3. Fair Value Method

Under each method of valuation there are sub methods with minor variations. The tree of methods of share valuation can be presented as below.



4.4. NET ASSETS METHOD

This method of valuation of shares is based on asset valuation. There are two sub approaches in this megod.

- taking the company as a going concern and
- taking the company as liquidated

- (1) Taking the company as a going concern:
 under this method there are are a proaches
 a) Valuation of shares as the basis of net tangible Assets with exclusion of goodwib) Valuation of shares as the basis of net tangible assets plus an amount of goodwill. exclusion of goodwill.

(a) Net Tangible Assets basis:

The value of the net tangible assets has to be calculated under this method. The net tangible assets can be arrived at by deducting liabilities from assets and also deducting

Advanced Financial Acc 4.4 Valuation of Shares

intangible assets like goodwill, preliminary expenses, etc. Thus, only sound assets are considered.

Net Tangible Assets = (Assets - Liabilities) - intangible Assets

Care should be taken to include non-trading Assets also and all the assets are to be valued at the replacement value i.e. Market value. Moreover, all liabilities whether in books or net be deducted from assets.

If only equity shares fully paid exist in a company the value of a share

= Value of Net Tangible Assets
No. of Shares

If both equity and preference shares exist and preference shares have priority as to capital and dividend, first, 5e preference shares are to be valued at par and paid. Them the net tangible assets are to be divided by the number of equity shares for calculating the value per share.

If there is uncalled capital at the time of valuation, the uncalled share amount be added to the net tangible assets to value the shares fully paid. The valuation of shares for the tangeness who have calls on arrears will be valued as a percentage on their paid up value with the nominal value of shares.

If the participating preference shares are there which stand equally with the equity shares, the value of each share would be in proportion to the paid up value of preference shares and equity shares.

ILLUSTRATION 1:

The summarized Balance Sheet of Sheela & Co as on 31st December 2002 is as below:

LIABILITIES ASSETS 4000 shares of Rs.100 each fully paid 4,00,000 Good will 60.000 6% Debentures 2,00,000 1.30.000 Investments Sundry Crailtors
1000 5% preference shares of Rs.100 Band & Buildings Plant & Machinery 1,50,000 1,00,000 4,00,000 each fully paid 1,00,000 90,000 Sundry Debtors 60,000 Preliminary Expenses 10,000 8,50,000 8,50,000

ADDITIONAL INFORMATION:

The investments are revalued at Rs.1,50,000 and the Sundry Debtors will realize Rs.48,000, Plant and Machinery to be depreciated at 8 per cent. The interest on Debentures

accrued for 10 months on preference shares divided, is due for the year. Calculate the value of equity shares.
SOLUTION

Net Tangible Assets Share Value

No. of shares

Net Tangible Assets = Tangible Assets - Liabilities - Preference share capital

Rs. Rs.

Thus. Net Assets are:

1,80,000 1,00,000 Investments Land & Buildings Plant & Machinery (net of Depreciation) 3,68,000 90,000 Stock Sundry Debtors 48,000

7,86,000

Less. Liabilities

2,00,000 6% Debentures Interest as Debentures (10 months) 10,000

Sundry Creditors 1,50,000

3,60,000 4,26,000

Less. Preference Share

1,00 000 Capital

5,000 Preference Dividend

1,05,000 3,21,000

Net Tangible Assets (value of 4000 equity

shares)

3,21,000 Value of an equity share = = Rs.80.25 Valuation of Shares

(b) NET ASSETS METHOD WITH INCLUSION OF GOODWILL:

Before explaining this method, a word about goodwill and its significance gives a logical insight. Goodwill occupies a place of prominence among all the intangible assets. The value of a company and its fixed assets depends on their ability to earn profits and the goodwill associated with them. This is the rationale behind including the value of goodwill along with Tangible Assets in valuation of shares. In this case the value of goodwill varies with the method of goodwill valuation.

Therefore in this case

Net Assets = Fixed Assets + Current Assets + Goodwill - Liabilities

Net Assets Value Share value =

No. of Shares

ILLUSTRATION 2

From the following information find out the value of the share:

BALANCE SHEET OF BALU & COMPANY

LIABILITIES	Rs.	ASSETS	Rs.
mare Capital:		Fixed Assets:	
40,000 equity shares of Rs.10		Goodwill	3,80,000
each	4,00,000	ovestment	6,00,000
Reserve and Surplus:		Current Assets:	
Reserves	5,00,000	Loans and Advances:	
Profit and Loss A/c	60,000	(a) Current Assets	1,00,000
Unsecured Loans	1,60,000	(b) Loans and Advances	60,000
Current Liabilities	40,000	Misc. Expenditure	20,000
	11,60,000	- -	11,60,000

For the purpose of valuation of shares, goodwill shall be taken at two years' purchase of the average profit (53he last five years. The profits for the last five years are: Rs.1,20,000; Rs.1,40,000; Rs.80,000; Rs.1,00,000; and Rs.1,00,000.

Calculation of value of Goodwill 21

Total Profits for 5 Years = Rs.1,20,000 + Rs.1,40,000 + Rs.80,000 + Rs.1,00,000 + Rs.1,00,000 = Rs.5,40,000

Average profits per year = Rs.5,40,000 / 5 = Rs.1,08,000

= 3 Years' purchase of average profits Goodwill

= 3 x Rs.1,80,000 = Rs.3,24,000

Acharya Nagarjuna University Centre for Distance Education Calculation on value of Equity share Rs. Rs. 3,24,000 Goodwill vestments
Current Assets 6.00,000 1,00,000 Loans and Advances 60,000 10,84,000 Less: Unsecured Loans 1,60,000 **Current Liabilities** 40,000 2,00,000 8,84,000

Number of Equity Shares = Rs.40,000 Value of Equity Share = Rs.8,84,000/40,000 = Rs.22.10

(ii) Taking the company as liquidated:

In the case of a company under liquidation the net asset basis of share valuation is much suitable. In such a situation the realizable values of the independent Assets are to be assessed. The Net Asset value calculation is similar as explained earlier. But provision must be made for the cost of liquidation and duly deduced from the Net Asset Value before calculating the share value.

Net Asset Basis - an evaluation:

The Net Asset Method of share valuation is not related to earning capacity but the market values of the assets. Thus this method is appropriate in the case of companies sustaining losses and are on the edge of liquidation. Though this method particularly suitable for calculation value of share wealth for wealth tax purposes, the realistic assessment of market value of assets is a challenging task.

4.5. YIELD METHOD

This is also known as earning capacity or Market value method. Investors in general and small investors in particular pay for the shares on the basis of the income or yield expected. Therefore, the expected dividends are taken as the basis in this method. Accordingly yield basis share value

 $= \frac{\text{Dividend per share}}{\text{Normal rate of return}} \qquad \text{X 100}$

It can also be calculated as 11

Share value = Rate of Dividend Paid up value per share X 100

Where Rate of Dividend = Dividend per share X 100

Advanced Financial Acc

The Dividend per share is calculated as

Net profit - Taxes - Transfer to Reserve and Redemption Fund etc - Preference dividend, if any, divided by No. of equity shares.

ILLUSTRATION 3.

ILLUSTRATION 3.

3 A company issues shares of Rs.50 each on which Rs.40 has been paid up. The amount of dividend per share is Rs.10 per share. The normal rate of return is 15 per cent. Calculate share value on yield basis or Market value method.

5Rate of Dividend Normal rate of return Share value =

X paid up value per share

Where Rate of dividend =

Dividend per share Paid up value per share

X 100

$$=$$
 $\frac{10}{40}$ X 100

25%

Then

Rate of Dividend Share value = Normal Rate of return

X paid up value per share

$$=$$
 $\frac{25}{15}$ X 100

_ Rs. 66.67

YIELD METHOD - AN EVALUATION:

This method of share valuation is simple to calculate and easy to understand. The market value of the share can be said to have related to earning capacity of the company.

On the negative side, the method suffers from two significant limitations. These are: (a) Dividend paid may not necessarily out of the present year profits or earnings. In this

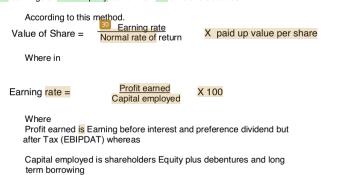
method dividend per share is taken as the basis which may not be related to present earnings. Thus the share value's relation to the earning capacity is misleading and



(b) In the case of a company which retains profits in reserve fund and conservatively a less dividend the market value o this method is undervalued. But actually due to strong reserve base, the net worth of the company is sound.

4.6. FAIR VALUE METHOD

This is also called earning capacity valuation rethod or dual method. This is geared to rectify one of the limitations of the earlier method that the value of the share is based on the dividend but not on the earnings. This method relates the value of the share to the earning efficiency in terms of profitability of the company as the market price of the share is based on the earnings of the company rather than the dividend declared.

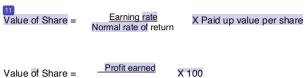


24 Capital employed is Fixed Assets + (current Assets–Current Liabilities)

ILLUSTRATION 4:

A company issued shares of Rs.100 each on which Rs.70 is paid up. The normal rate of return is 12 per cent. The earning before interest and preference dividend and also before Tax is Rs.6,80,000, the capital employed is Rs.32,00,000. Calculate the value of share on fair value basis assuming tax rate at 40%.

SOLUTION:



Advanced Financial Acc

4.10

Valuation of Shares

Capital employed

Profit earned = Earning before interest and preference Dividend but after taxes

Profit earned = 6,80,000 - 2,72,000 (40% tax)= Rs.4,08,000

Then Earning rate =
$$\frac{4,08,000}{32,00,000}$$
 X 100

127.5%

Value of share =
$$\frac{127.5}{12}$$
 X 100

Rs.743.75

An Evaluation:

This method is called a fair value or dual method because it consists the blend of characteristics of the earlier two methods. The net assets method takes the assets or capital as basis and the yield or market value method considers dividends or earnings whereas the present method i.e. fair value method considers both capital and earnings or profit earned and stands as fair value.

Intrinsic value + yield value 2

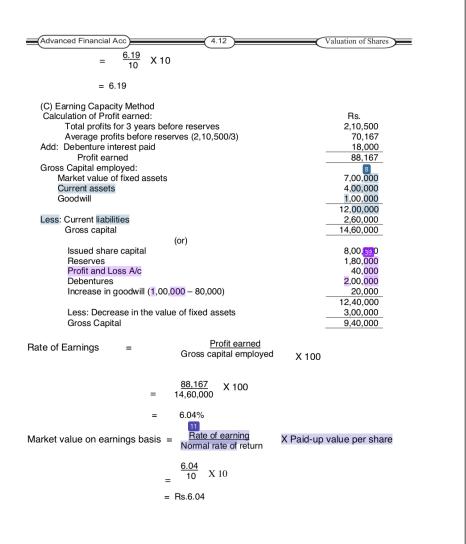
ILLUSTRATION 5:

On December 31, 1983, the Balance sheet of Lilly Limited reveals the following position:

Liabilities		Rs.	Assets	Rs.
Fair Value =				
	ares	8,00,600	Fixed Assets	10,00,000
Reserves		1,80,000	Current Assets	4,00,000
Profit & Loss A/c		40,000	Goodwill	80,000
9% Debentures		2,00,000		
Current Liabilities		2,60,000		
		14,80,000		14,80,000

On December 31, 1983, the fixed assets were independently valued at Rs.7,00,000 and the goodwill at Rs.1,00,000 The Net profits for the three years were: 1981 - Rs.1,03,200; 1982 - Rs.1,04,000, 1983 - Rs.1,03,300 of which 20% was placed under reserve, this proportion being considered reasonable in the industry in which the company is engaged and where a fair investment return may be taken at 10%. Compute the value of the company's shares by (a) the

Acharya Nagarjuna University 4.11 Centre for Distance Education Net Assets method, (b) The yield value method and (c) the Earning Capacity method (fair value method) SOLUTION: Rs. Rs. (a) Net Assets Method Intrinsic 75 Jue of shares:
Current assets as per Balance Sheet 4,00,000 Market value of fixed assets 7,00,000 Goodwill (as per valuation) 1,00,000 Total Market value of assets 12,00,000 Less: Liabilities 2,00,000 2,60,000 Debentures Current liabilities 4,60,000 Net Assets 7,40,000 No. of equity shares Intrinsic value per share Rs.7,40,000 80,000 = Rs.9.25 (b) Yield Value Method Rs. Calculation of average expected future profits Profits for three years before reserves 2,10,500 Average Profits before reserves (Simple average) Less: Transfer to reserve at 20% of 1,03,300 70,167 20,660 Average profits after reserve 49,507 Calculation of expected return on equity share capital (Rate of dividend): Expected Profit X 100 Equity paid-up share capital 49.507 X 100 X 100 8.00.000 6.19% Valuation of Goodwill and shares Calculation of yield value of share: Expected rate of Dividend X paid-up value per share Normal rate



4.7. ROLE OF FUNDAMENTAL ANALYSIS AND TECHNICAL ANALYSIS IN SHARE VALUATION

The fundamental Analysis and Technical Analysis play a very important role in share valuation

Fundamental Analysis relate to company economic, industry and company analysis. The fundamentalists forecast share values on the basis of economic, industry and company statistics. Therefore the decision variables in share valuation, according to Fundamental Analysis, are earnings and dividends. The value of shares is judged on the basis of earning power of the company, profit trends of the industry and the economic environment.

The Technical Analysis is an alternative approach to share value assessment and prediction. According to Technical Analysis the valuation of shares is based upon the forces of supply and demand. The Technical Analyst views changes in share values mainly through price and volume statistics. He uses various indicators to measure price-volume, supply-demand relationships for the overall market as well as for individual shares. The major technical indicators are market indicators, price indicators, volume indicators, confidence indicators, etc.

As stated earlier the Fundamental Analysis is concerned with economic, industry and company factors that influence the share valuation. The real world of investing is full of political, economic, social and other forces. These forces do not remain static and intermix in influencing dividends and share prices. A logical systematic approach, based on all these forces and various factors relating to economy, industry and the company concerned, is indispensable. This is top down method of analysis from macro to micro level.

The economic analysis relates the economic phenomena to share price movements. The important aspects of economy that influence share price are economic forecasts, general money supply and share prices, international economic scenario, disposable income, demographic factors and demand etc.

Industry analysis demands an insight into the key sectors or subdivisions of overall economic activity that influence particular industries and the relative strength or weakness of particular industry. Cyclical swings of an industry in tune with the business cycle changes, past sales and earning performance, degree of permanence and survival of the industry, the attitude and policy of Government towards the industry. Labour conditions, competitive conditions etc., also play a role in share valuation. Above all the industry life cycle stages exert significant influence on share valuation.

The company analysis relating to measurement of earnings, analysis of financial statements, operating results, the financial position, cost trends, auditors' opinions etc, play a significant role in investor expectations and consequently share valuation.

4.8. CONCLUSION

The unit should have helped inderstand the need for share valuation and the methods for valuation of shares with their relative merits and demerits. The modalities of calculating the value of shares under different methods are understood by you through simple illustration.

Advanced Financial Acc Valuation of Shares

After going through the unit successfully you should have realized that the valuation framework aids the investor in reaching a buys, sell or hold decision for which Fundamental analysis and Technical analysis in share valuation is significant.

4.9. SELF-ASSESSMENT QUESTION

Answer the following questions from your memory in not more than two pages each to assess whether you have understood the subject matter of the unit.

- 1. Explain the need for share valuation. Give a brief account of the different methods of valuing shares
- 2. Discuss the role of Fundamental Analysis and Technical Analysis in share valuation.
- 3. Evaluate the three methods of share valuation in their strengths and weaknesses.

4.10 KEY WORDS

Intrinsic value : Means the potential price of a company's common stock.

Liquidation : Winding up of the company

Net worth : Means the sum of paid up share capital plus

reserves plus the preference share capital.

Demographic characteristics : Population characteristics

Industry life cycle stages : Pioneering, expansion and stabilization stages.

4.11 FURTHER READINGS

- 1. R.L. Gupta, Advanced Accountancy, Sultan Chand & Sons, New Delhi.
- 2. Mukherjee and Manif, Modern Accountancy, Tata Mc Graw Mill, New Delhi.
- 3. Donald E. Fisher and Ronald J. Jordan, Security Analysis and portfolio Management, Prentice Hall of India, New Delhi.

Dr. J. Chandra Prasad

VALUATION OF GOODWILL

OBJECTVIES

The very objective of the unit is to help you understand the concept of Goodwill and types of Goodwill besides the factors influencing goodwill of a business. Once you have completed this unit you can further learn the Methods of Goodwill valuation with a practical

STRUCTURE

- 5.1. Goodwill A conceptual Focus
- 5.2. Factors affecting Goodwill
- 5.3. Types of Goodwill
- 5.4. Goodwill valuation the Need
- 5.5. Methods of Goodwill valuation
- 5.6. Average Method
- 5.7. Super Profit Method
- Annuity Methods
- 5.9. Summary
- 5.10. Self Assessment Questions/Exercises
- 5.11. Keywords
- 5.12. Further Readings

5.1. GOODWILL - A CONCEPTUAL FOCUS

Goodwill is an intangible Asset, which consists of the image of the business entity in the view of outsiders, customers, employees etc.

Braden and Allyn rightly defined Goodwill as "an intangible asset compounded from a variety of successful business ingredients competent and energetic Management, customer acceptance, a favourable locations, a quality and profitable product, efficient production methods, an outstanding reputation, plus the expectation that those ingredients will continue to produce an above normal rate of return for an indefinite period of time."

Goodwill is the reputation and image built up which places the business in a position to have long run survival, success and growth spesides positively influencing the earnings. Goodwill is a booster and odds value. It is thus the present value of a firm's anticipated excess earnings and adds extra value to the business beyond the intrinsic value of the assets. If the expected future earnings are greater than a satisfactory return, the capitalization of this efficiency or surplus is thought of as goodwill. Though goodwill is considered to be an intangible asset, like other tangible assets goodwill also contributes to future earnings. It's contribution is inevitable, invisible but can be visualized and felt.

Goodwill has a consolidating force and helps integrate the asset structure and its value. In the words of Adamson, A.V., "Just as cement binds together the bricks and other building material into walls, similarly goodwill binds together or unites the other assets and aspects of business into a cohesive whole".

Advanced Financial Acc 5.2 Valuation of Goodwill

According to Wildman, Goodwill is the influence that the Proprietor or his organization has upon the purchasing public through which he is enabled to attract and retain patronage.

Thus the term goodwill is generally used to denote the benefit arising from connection and reputation and its value is what can be get for the change of being able to keep that connection and improve it. Upon the sale of an established business its goodwill has a marketable value. Goodwill may be described as the aggregate of those intangible attributes of a business, which contribute to its superior earning capacity over a normal return on investment.

5.2. FACTORS AFFECTING GOODWILL

Companies or business entities differ in their setting, environment and circumstances. Goodwill and its valuation depends upon the circumstances of each case. Broadly the factors which influence goodwill valuation can be generalized as below.

1. PROFITABILITY OF BUSINESS:

The ability of the business to make profits and sustainability of such profits is a factor influencinzhe goodwill and its valuation. The goodwill is the value one is ready to pay for a business over and above the value of its assets. If a business is expected to generate surplus profits over and above the normal rate of return expected as other such investments its worths paying more in the form of goodwill.

2. BRAND EQUITY:

The brand image of the product and the strength of the brand loyalty contribute to goodwill. If the brand image is high like in the case of Nikon, Maruti etc., the valuation of goodwill rests at a higher level.

3. PRODUCT OF SERVICE QUALITY:

The quality of a product and its maintenance standard is an influencing factor. The product quality maintenance and it as perceived by the customer affect goodwill.

4. CUSTOMER ACCEPTANCE:

All the products and firms are not equally accepted by the customers. A number of factors decide the level of customer acceptance. If the product is widely accepted the goodwill carried by the business remainings high and vice versa.

5. BUSINESS LOCATION AND ACCESS:

The favourable location and its customer access positively adds to goodwill. Therefore, centrally located business entities with a wider customer reach command a greater value of goodwill.

6. TRANSFERABILITY OF COMMERCIAL VALUE:

The accounting for valuation of goodwill arises only when there exists commercial value and that too transferable. For instance the skill and knowledge of a doctor or actor cannot be transferred and therefore the goodwill of a such a person is of no commercial value.

7. RETURN ON CAPITAL EMPLOYED:

The profit to capital ratio is one of the determining factors for goodwill valuation. With a given amount of capital if a business is able to generate a higher amount of profit it enjoys a more value of goodwill. In other words for earning a given amount of profit if a less amount of capital is employed that business commands a more goodwill.

In this manner, the goodwill of business is influenced by other factors like future tax liability, worth of parents and copyrights possessed, credit prestige, distinctiveness and competitive status of the business etc.

5.3. TYPES OF GOODWILL

Goodwill can be classified on different bases as enumerated hereunder.

Goodwill is of different types and the main classes of goodwill can be identified as below.

a. Locational Goodwill

The goodwill arising out of the locational advantage of the business like central location, prestige and access of the business premises etc.

b. Charismatic Goodwill

The personal attraction and reputation of an individual associated with a business carries goodwill and such persons at key positions in a business contribute for the goodwill of the business due to their personal charisma.

c. Goodwill of Product Image

The market image of a product or service sold by a business adds goodwill to the business. The quality, standard and customer satisfaction, competitive edge etc., create such an image goodwill.

d. Goodwill of Market Dominance

The competitive structure of the market position and share of the market is a channel of goodwill. A business with complete or partial monopoly over the market commands goodwill of dominance.

e. Goodwill of Human Resource Quality

Human Resource with Commitment, performance, expertise, high level of motivation, loyalty etc., is a goodwill ambassador.

Advanced Financial Acc 5.4 Valuation of Goodwil

Goodwill of a business is an integrated whole of all these streams. Rowland identifies different classes of goodwill as local, the personal reputation, the reputation of the goods sold and the absence of competition.

Il Goodwill has been very ably divided into three types by Wilson as Cat, Dog and Rat goodwill, in view of the peculiar habits of these animals. Cat tends to stick to its abode, cat goodwill is therefore that which will adhere to the business which is being transferred and is the most valuable. The dog follows his master, dog goodwill is that which is difficult to transfer and is correspondingly less valuable. The rat is a migrant, rat goodwill is practically valueless as it represents those customers who have no affiliations either to the business or its proprietors and who may be here today and gone tomorrow. To sum up, Cat goodwill is adherent, Dog goodwill is personal and Rat is fugitive. Adherent goodwill is only valuable as attaching to the business, personal goodwill is unsaleable.

III Goodwill can also be classified into (a). Purchased goodwill and (b). Non-purchased goodwill, which is inherent.

Purchased goodwill arises when one business buys another and the purchase consideration paid is more than the value of the net tangible assets received. It never exists in a new business unless purchased.

Non-purchased or inherent goodwill is referred to as internally generated goodwill and it arises when a business may over the years generate its own goodwill. This type of goodwill is lasting and valued high.

Accounting principles require that non-purchased goodwill should not be shown in financial statements. Purchased goodwill should not be shown in financial statements. Purchased goodwill should not be shown in financial statements. Purchased goodwill should be eliminated from the accounts immediately on acquisition or may be amortized over its useful economic life.

ACTIVITY

Pick up a business of your choice you know and list out the factors, which you think contributed for its goodwill. List your identified factors in the order of importance. Give reasons or your ranking of factors.

5.4. GOODWILL VALUATION - THE NEED

Goodwill is an intangible Asset and highly unrealizable asset. Even though the management feels that goodwill has contributed to the earnings of the company the value of goodwill cannot be accounted. It only comes into an apparent and realized form when the business is sold as a going concerns and the buyer is prepared to pay for the business in excess of the book value of the assets. Thus it is the concept of surplus of the market value of the assets over the book values. Such a process of goodwill valuation is necessary for the purpose of assessment and recording is the books in the following circumstances.

5.5

- 1. When amalgamation of two business entities takes place the goodwill of the amalgamated business should be valued for the purpose of calculation of consideration.
- In the case of outright purchase of a business, the seller of business as well as the buyer needs valuation of goodwill. The former needs it to receive the premium consideration where as the later i.e., the buyer to assess the value that is attained to goodwill and its reasonability.
- 3. In the process of consolidation of holding company and its subsidiaries through their sets and liabilities goodwill valuation is also involved.
- In the case of a partnership business changes in the profit sharing ratio on the admission of a new partner or death or retirement of the existing partner goodwill valuation is warranted

5.5. METHODS OF GOODWILL VALUATION

For recording in the books of accounts and for a host of reasons mentioned earlier, goodwill is to be valued on systematic basis. Leaving aside the arbitrary methods, the important methods of goodwill valuation are:

- Average Method
- Super Profits Method
- 3. Annuity Method

These popular methods are explained and illustrated in the forthcoming discussion. Methods to be adopted in valuing goodwill depend upon the circumstances of each particular case. Therefore, the figure computed as goodwill cannot be an exact one.

5.6. AVERAGE METHOD

This is the Average Profits Method which takes into account the average profits for the st few years and the value of goodwill is calculating as some years purchase of this amount. The following steps are involved in this method.

- 1. Take the profits of the last few years.
- Calculate average of the profits as sum of profits divided by number of years.

 Multiply the calculated average profits with agreed years purchase of this amount. The product is the value of goodwill.

In step 2 above, the average profits may be based on (i) simple average or (ii). Weighted average. If it is simple average each years profits are given the same weightage. But if it is weighted average profits, the profit of each year is assigned and multiplied with a weight. Usually the weight of each year is the number of that year. For instance if four years profits Advanced Financial Acc

are taken the number of the relevant year (1 or 2 or 3 or 4 consecutively) will be the weight. Each year's profit should be multiplied with the weight and the total of weighted profits should be divided by the aggregate number of the weighted profits.

In both the simple and weighted average profits calculation, precaution must be taken in respect of any abnormal items of profit or loss, which may affect future profit.

The average profits method is generally adopted when a partner dies or retires and a clause to this effect is found in partnership agreements. It is also used for goodwill valuation when it is proposed to purchase a business.

The main advantage of as method is its simplicity. On the other hand the significant disadvantage is that trends in the level of profitability are not reflected in the variation of goodwill. Moreover, if the simple average method is used the profits all the years are given the same weightage without discrimination between a business with falling profits and that with increasing profits.

ILLUSTRATION 1

'A' Ltd. Agreed to purchase business of a sole trader. For that purpose, goodwill is to be valued at 3 year's purchase of the average profits of last 4 years.

Profits for these years are:

1999 –Rs.80,000; 2000 – Rs.90,000; 2001 – Rs.72,000; 2002 – Rs.92,000.

Solution:

Average Profit

Rs.80,000 + 90,000+ 72,000 + 92,000

= Rs.83, 500 Goodwill

= 3 years purchase of average profits

= Rs.83, 500 X 3 = Bs 2, 50,500

ILLUSTRATION 2

Sai & Co. proposed to purchase the business carried on by Mr. X. Goodwill for this purpose is agreed to be valued at three years' purchase of the weighted average profits of the past four years. The appropriate weights to be used are:

1991 - 1,2000 - 2,2001 - 3,2002 - 4

The profits for these years are: 1999 Rs.1, 32,000; 2000 Rs.1, 48,000; 2001 Rs.1, 10,000 and 2002 Rs.1, 62, 000.

A scrutiny of the accounts reveal the following:

(a). On Oct Ist, 2001 a major repair was made in respect of the plant incurring Rs. 32,000 which amount was charged to revenue. The said sum is agreed to be capitalized for goodwill calculation subject to adjustment of depreciation of 10% p.a. on reducing balance method

(b). The closing stock for the year 2000 was over-valued by Rs.18, 000

(c). To cover management expenses an annual charge of Rs.28, 000 should be made for the purpose of goodwill valuation.

Acharya Nagarjuna University 5.7	Centre for Distance Education
Compute the value of goodwill of the firm.	
SOLUTION	
	Rs.
Calculation of Adjusted Profits: Profits: 1999	1,32,000
Less: Management Expenses	28,000
Adjusted Profits - 1999	1,04,000
Profits: 20005	1,0 1,000
Less: 1. Over-valuation of Closing stock	18,000
2. Management Expenses	28,000
	46,000
Adjusted Profit – 2000	1,02,000
Profits: 200 5 Add: 1. Over-valuation of Opening Stock	1,10,000
Najor repairs of plant to be treated as	18,000 32,000
capital expenditure	52,000
	1,62,000
Less: Depreciation on capital expenditure at the rate	, , , , , , , , , , , , , , , , , , , ,
of 10% p.a. for 3 months from Oct.1, 2001 to	
10 3	800
December 31, 2001 3200 x x	
100 12	1,61,200
Less: Management Expenses	28,000
Adjusted Profits – 2001	1,33,200
rajustou i ionto 2001	1,62,000
Profits: 2002	.,,
Less: 10% Depreciation on Rs.31,200 (Book value	3,120
Rs.32,000 – Rs.500) capital expenditure	
	1,58,880
Less: Management Expenses	28,000
Adjusted Profits – 2002	_1,30,880_
Calculation of weighted Average Profits	

Year	Profit	Weight	Product
1999	1,04,000	1	1,04,000
2000	1,02,000	2	2,04,000
2001	1,33,200	3	3,99,600
2002	1,30,880	4	5,23,520
		10	12,31,120

Weighted Average Profit = 12,31,120/10 = Rs.1,23,112Goodwill at three years' purchase = $Rs.1,23,112 \times 3 = Rs.3,69,336$

CAPITALISATION OF AVERAGE PROFIT METHOD:

This is a variation of the Average Profit Method where the average profits calculated are capitalized at the normal rate of return and the net tangible assets are deducted from the capitalized value of the average profits to arrive at goodwill.

The following steps are to be observed is calculating the value of goodwill under this method.

- (a). Ascertain the average future caintainable profit, as explained already.(b). Capitalize this average profit at the normal rate of return on investment on the type of business under consideration. This will give the net worth of the
- business.

 (c). Find out the value of not tangible assets (i.e., net assets other than goodwill) of the
- (d). Deduct the net tangible assets from the capitalized net worth of the business and the difference is goodwill.

ILLUSTRATION - 3

A company proposes to sell its business and it earned an average profit of Rs.1,80,000 per annum which is expected to be earned is future also. The additional information is:

- (i). The auditor's fee of Rs.1,80, 000 per annum changed against such profits will not be payable by the purchasing company.
 (ii). Rent and Miscellaneous expenses of Rs.32,000 per annum paid by the vendor
- company will not be incurred by the purchasing company is future as it owns its

The net assets excluding goodwill, are valued at Rs.20,00,000. The return is expected at 10 per cent.

SOLUTION:

10 Average Net Profit Add: Expenses not likely to be incurred in the fi	1,80,0	Rs. 900
Doctors' fees Rent	18,000 <u>32,000</u>	
Average future maintainable profit	50,0 2,30,0	
2,30,300	x 100	
Capitalized net wealth = 10	= Rs.23,00,000	
Less: Net tangible assets other than goodwill	= Rs.20,00,000	Good
Will Rs.	3,00,000	0000

5.7. SUPER PROFIT METHOD

Super Profit Method is a common method of valuation of goodwill. Conceptually, the excess of actual profits over the normal profits is known as super profit. A business unit may posses some advantages which enable it to earn extra profits over and above the amount that would be normally earned, if the same capital is employed elsewhere in a business of same risk class. The extra profit over the normal profit, expressed as super profits, are valued and the goodwill is the value of the few years' purchase of super profits.

The normal profits are calculated based as normal rate of return. The normal rate of return refers to the rate of earnings which the investor in general expects on his investments in a particular type of industry.

PROCESS OF CALCULATION:

the calculation of super profits needs information about the estimated average future profits of the firm, the expected normal rate of return on investment and the fair value of the average capital employed. This systematically involves the following steps.

- Calculate capital employed (it is the total of shareholders' equity plus long term debt or fixed assets plus net current assets.
- Calculate normal return by multiplying capital employed with normal rate of 2.
- 3.
- 4.
- Calculate average maintainable profit of the business.

 Calculate the difference between the average maintainable profit and normal aturn calculated above. This difference is called super profit (of it is positive). Multiply that super profit by the number of years' purchase. The product is the value of the goodwill.

ILLUSTRATION - 4

Mr. Pachas provides the following particulars or his business and asks you to compute the value of goodwill on the basis of 5 years purchase of super profits.

The capital employed in the business is Rs.1,00,000 and the profits after tax for five years ending with 2002 are:

Rs.18,00(241998); Rs.22,000 (1999); Rs.20,000 (2000); Rs.8000 (loss in 2(53)) and Rs.19,000 (2002). The normal rate of reurn is 15 per cent consisting of market rate of interest on investment 8 per cent and the rate of risk return on capital invested in business is 2 per cent. Remuneration of the proprietor in alternative employment if not engaged in business is Rs.6,000 per annum.

SOLUTION:

	Rs.
Average Profits	
Profit 1998	18,000
1999	22,000
2000	20,000
2001	-8,000
2002	19,000

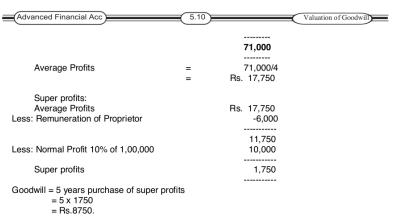


ILLUSTRATION 5

(Weighted Average Profes)
Following is the Balance sheet of champa traders.
Rs. Assets Rs. 2,**23**,000 7,00,000 Creditors Goodwill 15,000 Capital Fixed Assets 4,00,000 Reserve 1,65,000 **Current Assets** 5,00,000

Investment in shares 1,50,000 10,65,000 10,65,000

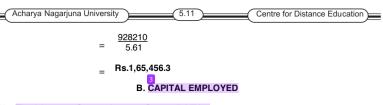
Net profits for five years are as below:

1999 – Rs. 1,30,000; 2000 – Rs. 1,50,000; 2001 - Rs. 1,80, 000; 2002 – Rs.2,00,000; 2003 – Ss. 2,10,000 (each year's profit in gude fixed income on investment of Rs. 9000 per annum). Rate of return on capital employed is 10%. Calculate the goodwill of the business at four years purchase of the super profits assigning weights to the average profits as 2, 2.2, 2.5, 01 and 1.8 respectively for the years 1999 through 2003.

SOLUTION:

A. CALCU	ILATION OF	WEIGHTED	AVERAGE	PROFITS	
	1999	2000	2001	2002	2003
Profit (Rs.)	1,30,000	1,50,000	1,80,000	2,00,000	2,10,000
Less: income on investment	9,000	9,000	9,000	9,000	9,000
	1,21,000	2,49,000	1,71,000	1,91,000	2,01,000
Weights (multiply)	1.1	1.2	1.3	1	1.01
Product (Rs.)	1,33,100	1,78,800	2,22,300	1,91,000	2,03,010

Weighted Average Profits = Sum of products
Sum of Weights



Net Fixed Assets + Current Assets - Current liabilities

=4,00,000+5,00,000-2,00,000

= Rs.7,00,000

C. SUPER PROFITS

Weighted Average Profits Rs.1,65,456 (approx)

Less: Normal profit (10% on capital employed) 70,000

Super profits 95,456

Goodwill = 4 years purchase of super profits

= 4 x 95,456 = Rs.3,81,824

ILLUSTRATION 6

Negotiation is going on for transfer of X LTd., on the basis of the Balance Sheet and the additional information as given below:

BALANCE SHEET OF X LTD. AS ON 31ST MARCH, 1988.

Liabilities	Rs.	Assets	Rs.
Share capital (Rs.10 fully paid-up shares	100,000	Goodwill	1,00,000
Reserve and Surplus	4,00,000	Land and Building	3,00,000
Sundry Creditors	3,00,000	Plant and Machinery	8,00,000
		Investments	1,00,000
		Stocks	2,00,000
		Debtors	1,50,000
		Cash and Bank	50,000
	17,00,000		17,00,000

Profit before tax for 1987-88 amounted to Rs.6,00,000 including Rs.10,000 as interest on investment. However, an additional amount of Rs.50,000 p.a. shall be required to be spent for smooth running of the business.

Market values of Land and Buildings and Plant and Machinery are estimated at Rs.9,00,000 and Rs.10, 00,000 respectively. In order to match the above figures further depreciation to the extent of Rs.40,00,000 should be taken into consideration. Income tax rate

(Advanced Financial Acc) 5.12 Valuation of Goodwill

may be taken at 50%. Return on capital at the rate of 20% before tax be considered normal for this business at the present stage.

For the purpose of determining the rate of return, profit for this year after the aforesaid adjustments may be taken as expected average profit. Similarly, average trading capital employeds also to be considered on the basis of the position in this year. It has been agreed that four yeas' purchase of super profit shall be taken as the value of goodwill for the purpose of the deal. You are required to calculate the value of goodwill of the company.

SOLUTION:

(1) CALCULATION OF CAPITAL EMPLOYED

45 Particulars	Rs.
Land and Buildings (Market Value)	9,00,000
ant and Machinery (Market Value)	10,00,000
Stock	2,00,000
Debtors	1,50,000
Cash and Bank	50,000
	23,00,000
Less: Sundry Creditors	3,00,000
•	20,00,000

(2) COMPUTATION OF AVG. MAINTAINABLE TRADING PROFIT

Particulars	Rs.	Rs.
Net Profit before tax		6,00,000
Less: Additional Depreciation (given)	40,000	
Less: Additional recurring expenses (given)	50,000	
Less: Interest on investment (Non-operating profit)	10,000	
		1,00,000
23		5,00,000
Less: Provision for Tax @ 50%		2,50,000
Profit after Tax		2,50,000
	-	

(3) CALCULATION OF AVERAGE CAPITAL EMPLOYED

Particulars	Rs.
Closing capital employed [(as per above (1)]	20,00,000
Less: ½ of average maintainable trading profit after tax (Note 2)	1,25,000
	18.75.000

(4) CALCULATION OF SUPER PROFITS

Particulars	Rs.
Profit after tax (Trading)	2,50,000
Less: 10% of Average Capital employed	1,87,500
Super Profits	62,000

METHOD OF CAPITALISATION OF SUPER PROFITS:

This method is a variation of the super profit pethod where the goodwill value is calculated by capitaling super profits at agreed rate. The simple formula for calculation of goodwill under this method is

$$V_G = \frac{P_1 - rc}{x}$$

Where VG = Value of Goodwill, P1 = Average maintainable profits

r= normal rate of return, c= capital employed and x= rate agreed to capitalizes super profits.

ILLUSTRATION 7

The after Tax profits of a business for past four years are given as Rs.2,50,000; Rs.2,08,500; Rs.2,70,000 and [22,1,92,000]. The expected normal rate of return is 12 per cent whereas the capital employed is Rs.22,00,000. Calculate the value of goodwill based on capitalization of super profit. The rate of capitalisation is agreed at 10%.

SOLUTION:

Average maintainable profits = $\frac{2,50,000 + 2,08,500 + 2,70,000 + 1,92,000}{4}$

ofits = - 9,20,500/4

= Rs. 2,30,125

Now A x Rs.2,30,125 r = 12%C=Rs.22,00,000 x = 10%

Goodwill (V_G) =
$$\frac{A - rc}{X}$$

= $\frac{ns.2,30,125 - 12\% \text{ of } Rs.18,00,000}{10\%}$

= Rs.1,41,250

5.8. ANNUITY METHOD

Under this method goodwill is calculated by taking the average super profit as the value of an annuity over a certain number of years. An annuity is a series of equal periodic patents occurring at equal intervals of time. In other words goodwill is calculated by finding the present value of an annuity discounted at a given rate of interest which is usually the normal rate of return.

The present value of an annuity of Re. 1 is calculated as

$$P_{r} = \frac{1 - \frac{r}{100} n}{r/100}$$

Advanced Financial Acc 5.14 Valuation of Goodwill

P_r = Present value an annuit

r = rate of interest (normal rate of return)

n = number of years

Usually Annuity factor (f) for given number of years at a particular interest rate can be noted by referring to Annuity Table and then goodwill can be calculated as Goodwill = Super profits X f (Annuity)

For example if the super profits calculated are Rs.18,000 and the annuity of Re. 1 discounted at 10 per cent for 5 years in 3.791 then

The value of annuity is generally given, if the value annuity is not given goodwill can be straight away calculated with the formula.

$$(V_G) = \frac{\underline{a}}{r} \left[\begin{array}{cc} \frac{4}{1-\frac{1}{(1-r)^n}} \end{array} \right]$$

Where

V_G = Value of Goodwill, a = Average Super Profit

R =rate of interest per annum; n = number of years.

This is a complicated process there reference to annuity table makes it easy to find out annuity and calculate goodwill as average Super profits X Annuity.

A Company has net tangible assets valued at Rs.12,00,000 on which a name rate of return of 10% is expected. It is expected that the company can maintain its super profits for the next six years.

The net profits after tax for the company are last year – Rs.1,20,000, 12 year – Rs.1,50,000; III year – Rs.90,000 IV year – Rs.2,10,000 and V year – Rs.2,40,000. The present value of an annuity for Re. 1 for five ears at 10 per cent interest rate is Rs.3.791. You are required to calculate goodwill of the business on the basis of an annuity of super profits.

A. Average Profits = Rs.1,20,000 + 1,50,000 + 90,000 + 2,10,000 + 2,40,000

B. Super Profits

= Average profit24 Normal profits = 10% of 12,00,000 Normal Profits = Rs.1,20,000

Therefore Super Profits = Rs.1,62,000 - 1,20,000 = Rs.42,000

C. Goodwill = Super profit x Annuity referred

= Rs.42,000 x 3.791 = Rs.1,59,222.

Acharya Nagarjuna University 5.15 Centre for Distance Education
ACTIVITY Ascertain the relative merits and demerits of the methods of goodwill valuation in your opinion and list out below

5.9. SUMMARY

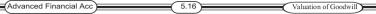
In this unit we cave looked at the concept of goodwill and calculation of its value. Goodwill is the surplus of the Market value of assets over the book value. The value of goodwill is influenced by a number of factors like the locational advantage of business, product and brand image, competitive position, quality of the product etc.

For the valuation of goodwill there are different methods the significant among them are (a) Average Profits Method (b) Super Profits Methods and (c) Annuity Method. These methods have their respective decencies and deficiencies. Generally goodwill calculated as innuity method is more reliable especially for the purchase of business since the capitalization of super profit method, gives the maximum value of goodwill and is not safe to follow.

5.10. SELF STUDY EXERCISES / QUESTIONS

- 1. What is goodwill? Explain in brief different methods of goodwill valuation.
- What is super profit? What are the steps to be followed for calculating super profit for valuation of good will.
- 3. Explain the important factors to be considered in goodwill valuation.
- Compare and contrast the Annuity Method and capitalization of super profit method by constructing a hypothetical problem.
- Joshi purchased a business from Kailash on April 1, 2003. Profits earned by Kailash for the preceding years ending December 31, each year were 2000 – Rs.50,000; 2001 – Rs. 60,000; 2002 – Rs. 64,000

It was found out that profit for the year 2000 included a non-recurring item of Rs.2,000 and the profit for the year 2002 was reduced by Rs. 3,000 due to an abnormal loss on account of a small fire in the shop. The properties of the business were not insured in the past, but it was thought prudent to insure the properties in the future and the premium was expected to be Rs. 1500 per annum. Joshi at the time of purchase on the business was employed as a manager with Rani Ltd. at a monthly salary of Rs. 2000. He intended to replace the manager of the business, who is at present paid a salary of Rs. 1750 per month. The goodwill is estimated at 3 years' purchase of the average profits. Calculate the value of goodwill of the



TIPS FOR SOLUTION

- 1. Non-recurring profit be deducted from profit 2000.
- Abnormal loss due to fire be added to profit 2002.
 Expenses to be incurred in future (a). insurance premium per annum and (b). salary of the proprietor (2000 X 12 = 24,000) should be deducted from average profits.
 Expenses need not be incurred in future i.e., salary of the manager (Rs. 1750 X12 = Rs.
- 21,000) should be added to average profits.

Answer = Rs. 1,61,499 5. Ascertage the value of goodwill of LaxmiRam Limited on capitalization of Average profit

method from the following information.

Balance Sheet as at 30th June, 1994

Liabilities	Rs.	Assets	Rs.
Paid-up Capital-2,500 shares of		Goodwill at cost	2,50,000
Rs.100 each fully paid	25,00,000	8	
Bank Overdraft	4,80,000	Land and Building at cost	11,00,000
Sundry Creditors	8,05,000	Plant and Machinery at	10,00,000
	8	cost less depreciation	
Provision for Taxation	4,25,000	Stock-in-trade	15,00,000
		Book debts less	9,60,000
17		provision for bad debts	
Profit & Loss Appropriation Account		•	
	6,00,000		
	48,10,000		48,10,000

The 17 mpany started operations in 1989 with a paid up capital as aforestated of Rs. 25,00,000. Profits earned before providing for taxation have been as follows:

Year ended 30 June; 1990: Rs.6,00,000; 1991: Rs.7,50,000; 1992: Rs.8,50,000; 1993: Rs.9,50,000; 1994: Rs.8,50,000.

Income tax @ 50% has been payable on these profits. Dividends have been distributed from the profits of the first three years @ 10% and from those of the next two years @ 15% of the paid-up capital.

TIPS:

Normal rate of return = average rate of dividend paid = [(10% X 3) +(15% X 2)] / 5 = 12% = 4,83,333.

7. Roja runs a cosmetic store. Her tot assets on 31st December, 1993 amounted to Rs.2,00,000. After paying a rent of Rs.2,000 a year and a story of Rs.10,000 to her manager, she earns a profit of Rs.50,000. Her landlord is interested in acquiring the business. 12% is considered to be a reasonable return on capital employed. Calculate the value of goodwill at 3 years' purchase of super profit.

(Ans. Rs.69,600).

8. X Limited, and Y Limited propose to amalgamate

			[6]		
BAI	ANCE SHE	ET OF X LTD	& Y LTD. (As on 31	st December,	1995)
Liabilities	X Ltd.	Y Ltd.	Assets	X Ltd.	Y Ltd.
	Rs.	Rs.		Rs.	Rs.
Share Capital:			Fixed Assets less	9	
			Depreciation	4,00,000	1,00,000
Equity Shares of			Investments (face		
Rs.10/-	5,00,000	2,00,000	value		
			Rs.1,00,000 6%	1,00,000	
3			G.P. Notes		
General Reserve	2,00,000	20,000			
Profit & Loss A/c	1,00,000	30,000			
Current Liabilities	1,00,000	50,000	Current Assets	4,00,000	2,00,00
	9,00,000	3,00,000		9,00,000	3,00,000

Net Profit (after taxation)	55	
	X Limited (Rs.)	Y Limited (Rs.)
1993	1,30,000	45,000
1994	1,25,000	40,000
1995	1,50,000	56,000

Goodwill for the purpose of amalgamation may be taken as 4 years' purchase of average super-profits trading on the basis of 15% normal profit on closing capital invested. The current assets of X Ltd. are to be taken as Rs.4,20,000 and that of Y Ltd. as Rs.2,10,000.

Ascergin the value of goodwill.

Ans. (X Ltd. Rs.84,000; Y Ltd. Rs.32,000).

9. From the following information available to you, ascertain the value of goodwill under the Super-Profit method of A Ltd. which is in the business of retail trading:

BALANCE SHEET AS ON MARCH 31, 1982

	Rs.		Rs.
Paid-up Capital: 31		Goodwill at cost	50,000
5,000 shares of Rs.100 each, fully		Land and Building at cost	2,20,000
paid	5,00,000	31	
Bank overdraft	1,16,700	Plant and Machinery at cost	2,00,000
Sundry creditors	1,81,000	Stock in trade	3,00,000
Provision for taxation	39,000	Book debts less provision for	1,80,000
		bad debts	
Profit and loss Appropriation A/c	1,13,300		
	9,50,000		9,50,000

Valuation of Goodwill Advanced Financial Acc 5.18

The company commenced operations in 1965 with a paid-up capital of Rs. 5,00,000. Profits after taxation for the recent years (year enging on March 31) have been as follows: 1978 - H3 40,000 (Loss); 1979 - Rs.88,000; 1980 - Rs.1,03,000; 1981 - Rs.1,16,000; Rs.1982 -Rs.1,30,000. The loss in 1978 occurred due to a prolonged strike.

The insome tax paid so far has been at the average rate of 40%, but it is likely to be 50% henceforth. Dividends were distributed at the rate of 10% on the paid-up capital in 1979 and 1980 and at the rate of 15% in 1981 and 1982. The market price of shares is ruling at Rs.125 at the 5nd of the year ended March 31, 1982. Profits till 1982 have been ascertained after debiting Rs.40,000 as remuneration to the managing director. The Government has approved a remuneration of Rs.60,000 with effect from April 1, 1982. The company has been able to secure a contract for supply of material at advantageous prices. The advantage has been valued at Rs.40,000 per annum for the next five years.

(Ans: Average capital employed Rs.5,73,300; future maintainable profit Rs.1,06,834; Goodwill (at normal rate 12 ½% Rs.1,05,513)

10. The net profit of a company after providing for taxation for the past five years are: Rs.40,000; Rs.50,000; Rs.30,000; Rs.70,000; and Rs.80,000. The net tangible assets in the business is Rs.4,00,000 on which the normal rate of return is expected to be 10%. It is also expected that the company will be able to maintain its super profits for the negotive years. Calculate the value of goodwill of the business on the basis of an annuity of super profits, taking the present value of an annuity of one rupee for five years at 15% interest is Rs. 3,352.

5.11. KEYWORDS

Annuity: A series of receipts or payments of a fixed amount for a specialized

number of years.

Present Value: The value of sums received in future being discounted by an

appropriate capitalization rate.

<u>Amalgamation:</u> Coalescing of two independent or business entities.

5.12. FURTHER READINGS

1. R.L.Gupta, Advanced Accountancy, Sultan chand & Sons, New Delhi.

2. S.P. Jain and K.L. Narang, Company Accounts, Kalyani Publishers, Ludhiana.

Lesson - 6

RECONSTRUCTION OF COMPANY ACCOUNTS

OBJECTIVES:

- * To understand the very purpose of reconstruction of Company Accounts.
- * To differentiate between External and Internal reconstruction.

STRUCTURE:

- 6.1. Introduction
- 6.2. External Reconstruction
 - a) Calculation of purchase consideration.
 - b) Journal Entries in the Books of Vendor Company
 - c) Journal Entries in the Books of Purchase Company
 - d) Problems & Solutions
- 6.3. Internal Reconstruction
 - a) Alteration of Share Capital
 - b) Reduction of Share Capital
 - c) Model Entries
 - d) Problems & Solutions
- 6.4. Summary
- 6.5. Key words
- 6.6. Self Assessment Questions
- 6.7. Suggested Readings

6.1. Introduction:

To start with, it is to be understood that when two companies are taken over by a newly formed company for the progress in business, it is aptly termed as Amalgamation. Needless to say, the company whose business activities are taken over shall totally wound up. This taking over is done with a view to improving the business of two or more companies which reach the stage of liquidation.

Unlike amalgamation, if one or more companies are taken over by a company already in existence. It is termed as absorption. In Amalgamation a new company takes over the business of two or more companies, where as in absorption, a company already in existence taken over the business of the one or more companies.

When a containy suffers from heavy losses, the point of reorganisation arises. In fact, the suitable term is Reconstruction. It mea specified in the suitable term is Reconstruction. It meas reorganisation of company's financial structure. It may be both internal as well as external. In External reconstruction, a new company is floated to take over the business of the existing company, which is liquidated and wound up. In case of internal

Advanced Financial Acc 6.2 Recon.Company Account

reconstruction, the capital structure is reorganised without forming a new company. The company does not go into liquidation.

6.2. External Reconstruction:

This refers to taking over the business form a company which is liquidated, which is otherwise known as vendor company by a new company which is otherwise known as purchasing company and the amount payable by the purchasing company to the vendor company is known as purchase consideration.

a) Calculation of Purchase Consideration :

In fact purchase consideration means the purchase price agreed upon by the purchasing company in order to pay to the vendor company. This is calculated in four different ways.

Lumsum Method: A Lumsum amount is paid to vendor.

2. Net Payment Method :

Under this method purchase consideration is calculated and the payment is made in the form equity shares, preference shares, debentures, and some amount of cash.

3. Net assets Method :

According to this method the purchase consideration is calculated to derive value of net assets. To make it clear, agreed value of assets taken over by the purchasing company and agreed value of the liabilities are determined. Agreed value of all assets taken over minus agreed value of all liabilities is the total purchase consideration.

4. Intrinsic value Method:

In this method, the purchase consideration is calculated on the basis of the ratio in which the shares of the purchasing company's are to be exchanged for the shares of vendor company. To make it clear, this ratio is determined as the basis of the value of ratio company's share.

b) Journal Entries in the Books of Vendor company :

For liquidation, the vendor company must prepare a nominal a/c known as realisation a/c to realise the assets & liabilities of the company. The specimen entries are as follows.

1. When assets are transferred to Realisation alc

Realisation A/c Dr

To various assets A/c

Note: If the purchasing company takes over all the assets transfer to realisation A/c all assets including cash (unless otherwise stated) but not accumulated sees like preliminary expenses, share discount, profit & loss a/c (debit balance) etc. If other assets are not taken over by the purchasing company, those assets are also to be transferred to the realisation A/c for realising the amount.

2. When liabilities are transferred to realisation a/c

Liabilities a/c Dr

Provisions against assets a/c Dr To

Realisation a/c

6.3

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Note: If the business of the vendor company is taken over by the purchasing company, as pafer all liabilities payable to outsiders excluding debentures. Even if some outsiders liabilities are not taken over by the purchasing company, those liabilities too are transferred to realisation a/c for discharging them. The provision against assets is not dischargeable.

Dr

3. When purchase consideration is taken into account

Purchasing company a/c Dr

To Realisation a/c

(with the amount of purchase consideration)

4. When purchase consideration is received

Equity shares value in purchasing company a/c

Preference shares value in purchasing company a/c Dr

Debentures value in purchasing company a/c

Cash a/c

To purchasing company a/c

5. When assets not taken over by the

purchasing company are sold

Cash a/c Dr

To Realisation a/c

6. When liabilities not taken over by the purchasing

company are paid off

Realisation a/c Dr

To Cash a/c

7. When debenture holders are received excess over book

value

Realisation a/c Dr

To Debebtures holders a/c

8. When preference share holders a/c received in excess over the

book value

Realisation a/c Dr

To preference share holders a/c

Centre for Distance Education

The following important accounts are likely to be prepared.

- Realisation account
- Purchasing company account
- Shares account
- Debentures account in purchasing company
- Cash (or) Bank a/c
- Share holders account
- Debenture holders account.

C) Journal Entries in the Books of Purchasing Company:

Purchasing company may be a newly formed company (or) an existing company. It has to acquire the business of vendor company by paying urchase consideration. If price paid is more than the worth received the difference is goodwill. If the price paid is less than that received, the difference is capital reserve. The specimen accounting entries are as follows.

Dr

1) When business is purchased

Business purchase a/c Dr To

liquidator of vendor company (with

purchase consideration)

2) When business is acquired as per agreement

Cash at bank a/c Debtors a/c Dr Stock a/c Dr Plant & Machinary a/c Dr Land & Buildings a/c Dr Goodwill a/c Dr

To Sundry Creditors

To Bills Payable

To Reserve for doubtful debts a/c

To Capital Reserve a/c

To Business purchase a/c

3. When purchases consideration is paid

Liquidation of vendor company a/c Dr

Share discount (if any) a/c

To equity share capital a/c

To share premium (if any) a/c To

preference share capital a/c To

debentures a/c

To bank a/c

4. When Liquidation expenses of under company is born by Purchasing Company

Good will of Dr

To cash (or) Book of

Illustration: 1

Given below is the balance sheet of Bad-Luck Ltd. as at March 31⁵¹2003.

		Balance Sheet	
40,000 shares of Rs. 10 each fully paid	4,00,000	Land and Building	3,20,000
Creditors	3,00,000	Plant and Machinery	1,30,000
		Stock	70,000
		Debtors	1,20,060
		Cash	500
		Preliminary expenses	5,000
		Profit and Loss A/c	54,500
_	7,00,000		7,00,000

The following scheme of reconstruction was arranged by the necessary meetings and sanctioned by the court:

- a) The company to go into liquidation and a new company, Sound Venture Ltd., with an authorised capital of Rs 8,00,000 be formed to take over the assets and liabilities.
- b) Preferential creditors of Rs. 10,000 included in the above Balance Sheet are to be paid in full.
- c) Unsecured creditOrs to receive either (i) 50 percent of their claim in cash or (ii) 6 percent debentures in the new company, equivalent to their claim, at par.
-) Shareholders in Bad-Luck Ltd. to be allotted one share in the new company of Rs. 10 each, Rs. 5 per share paid, for every existing share held by them.
- e) Reconstruction costs amounting to Rs. 6,000 to be paid by Bad-Luck Ltd. from cash made available by the new company.

Half of the unsecured creditors in value opted out for immediate cash payment for which purpose necessary cash was made available by the new company which made a call of Rs. 5 each on the partly paid shares allotted as aforesaid. Six shareholders holding 240 shares dissected to the scheme and their interest was purchased by an assenting shareholder. The new company valued all assets (except Land and Buildings) taken over from Bad-Luck Ltd. at par.

Prepare the Balance Sheet of the new company after the above transactions are concluded.

Solution:

Working Note:

* Cash to Preferential creditors

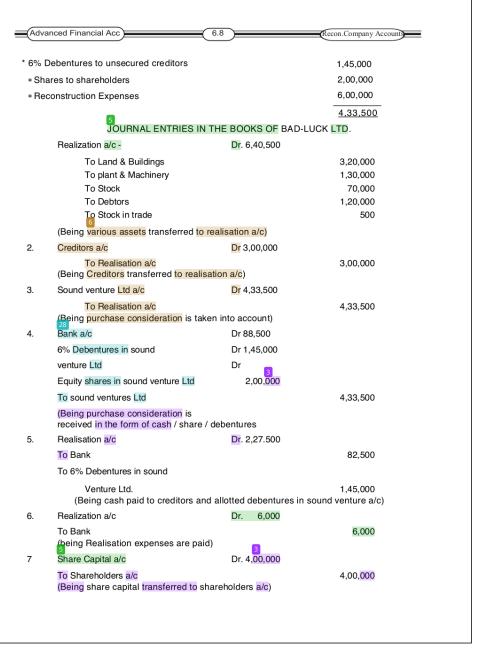
10,000

* Cash to Unsecured creditors

(3,00,000 - 10,000)

(2,90,000* 1/2* 50/100

72,500



Share holders a/c 8.

Dr 59,500

To Preliminary expenses
To Profit & Loss a/c

5,000 54,500

(Being preliminary expenses and Profit & Loss of debit balance transferred to shareholders a/c)

Sh"a"reholders a/c

Dr. 1,40,500

To Realisation a/c

1,40,500

(Being loss on realisation transferred to shareholders a/c)

Shareholders a/c

Dr 2,00,000

To shares in sound ventures ltd.

2,00,000

(Being shares allotted to shareholders in bad luce Ltd for final settlement)

REALISATION A/C

Particulars	Rs.	Particulars	Rs.
To Land & Buildings	3,20,000	By Creditors	3,00,000
To plant & Machinery	1,30,000	By Sound Ventures Ltd.	4,33,500
To Stock	70,000		
To Debtors	1,20,000		
To Cash	500		
To Bank	82,500		
To 6% debentures in sv ltd	1,45,000		
To Bank	6,000	By Shareholders a/c	1,40,500
	8,74,000		8,74,000
	SHAREH	OLDERS A/C	
Particulars	Rs.	Particulars	Rs.
To Preliminary Expenses	5,000	By Share Capital	4,00,000
To Profit & Loss a/c	54,500		
To realisation a/c	1,40,500		
cf shafts in Sound	2,00,000		
Ventures Ltd			
	4,00,000		4,00,000

Journal Entries in the Books of Sound Venture Ltd.

Business Purchase a/c

Dr 4,33,500

To Liquidator of Badluck ltd.

4.33,500

(Being Business taken)

Advanced Financial Acc 6.10 Recon.Company Accounts 2. Land & Buildings a/c Dr 3,20,000 Plant & Machinery a/c Dr 1,30,000 Stock a/c Dr 70,000 Debtors a/c Dr 1,20,000 Cash a/c 500 To Business purchase a/c 4,33,500

To Capital Reserve a/c 2,08,000 (Being assets and liabilities taken over and the consequent profit there on transferred to Capital Roserve)

3. Liquidator of Badluck Co. Ltd Dr. 4,33,500

To Cash 88,500

To 6% Debentures in sound

Venture Ltd. 1,45,000

To Equity share capital 2,00,000
(Being pufchase consideration paid)

4. Bank a/c Dr 2,00,000

To Equity share capital a/c 2,00,000

(Being cash received on shares)

BALANCE SHEET OF SOUND VENTURES LTD.

Liabilities	Rs.	Assets		Rs.
Authorised Capita1,	8,00,000	Land & Buildings		3,20,000
Issued, Subscribed, calledup and paid up capital	4,00,000	Plant & Machinery	,	1,30,000
(40,000* 10)		Sundry Debtors		1,20,000
6% Debentures	1,45,000			
Capital Reserve	2,08,000	Stock		70,000
		Cash	5,000	
		(+) Receipts	2,00,000	
			2,05,000	
		(-) Payments	88,500	
				1,12,000
		Reconstruction ex	penses	5.000
	7,53,000			7,53,000

6.11

Centre for Distance Education

Illustration: 2

On 31st March 1974, the position of M.Co. Ltd. was as follows:

Liabilities	Rs.	Assets	Rs.
Capital	10,00,000	Land & Buildings	4,50,000
1,00,000 Equity shares of Rs. 10 each fully paid			
Sundry Creditors	30,000	Plant & Machinery	2,40,000
Bills Payable	20,000	Sundry Debtors	1,00,000
		Stock-in-Trade	50,000
		Cash at Bank	10,000
		Profit and Loss a/c	2,00,000
Total	10,50,000		10,50,000

The following scheme of reconstruction was approved at that date :

- The company to go into voluntary liquidation and a new company called the N.Co. Ltd., to be formed to take over the business of the old company.
- b) The capital of the new company was to be Rs. 15,00,000 in 1,50,000 Equity shares of. Rs. 10 each.
- c) The new company to take over all the assets of the old company, but not the liabilities.
- d) The purchase consideration was to be 8,00,000 payable as to Rs. 7,00,000 by the issue of 1,40.000 Equity shares of Rs. 10 each with Rs. 5 per share credited as paid up and as to Rs. 1,00,000 in cash.
- e) The members of the new company were to pay the balance of Rs. 5 per share as to Rs. 2.50 on first call and Rs. 2.50 on final call. The expenses of reconstruction amounted to Rs. 5,000.

No further shares were issued beyond those forming part of the purchase consideration. All the calls were duly paid.

Pass the necessary journal entries in the books of N.Co.Ltd., and prepare its opening balance sheet.

Solution:

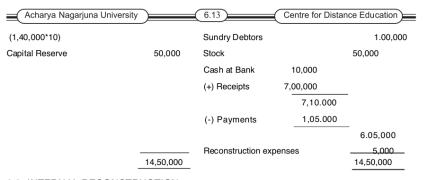
JOURNAL ENTRIES IN THE BOOKS OF M. CO. LTD

a.	Business Purchase a/c	Dr	8,00,000	
	To Liquidation of M.Co. Itd			8,00,000
	(Being purchase consideration agreed u	pon)		
b.	Land & Buildings a/c	Dr	4,50,000	
Plan	t & Machinery a/c	Dr	2,40,000	

■ (Ad	vanced Financial Acc	6.12		Recon.Company Accounts
	Sundry Debtors a/c	Dr	1,00,000	
	Stock in Trade a/c	Dr	50,000	
	Cash at Bank a/c		10,000	
	To Business Purchase a/c			8,00,000
	To Capital Reserve a/c			50,000
	(Being assets and Liabilities takenover	and balance	transferred t	o Capital Reserve a/c).
С	Liquidation of M. Co. Ltd.	Dr	8,00,000	
	To Equity Share Capital			7.00,000
	To Bank			1,00,000
	(Being purchase consideration was pa	aid)		
d	Equity share 1st call a/c	Dr	3,50,000	
	To Equity share capital			3,50,000
	(Being 1st call was made)			
	Bank a/c	Dr	3,50,000	
	To Equity Share 1st call a/c			3,50,000
	(Being 1st call Received)			
	Equity Share!! Final call a/c		3,50,000	
	To Equity Share Capital			3,50,000
	(Being Final Call was made)			
	Bank a/c		3.50,000	
	To Equity share II Final call a/c		0.00,000	3,50,000
	(Being Final call was received)			
	Realisation a/c	Dr	5,000	
	To Bank	Di	5,000	5,000
	(Being Expenses paid on Reconstruc	tion)		3,000
	(20g Expenses paid on Heconstitue			

BALANCE SHEET OF M. Co. LTD

Rs.	ASSETS	Rs
15.00,000	Land & Buildings	4,50.000
14,00,000	Plant & Machinery	2.40,000
	15.00,000	15.00,000 Land & Buildings



6.3. INTERNAL RECONSTRUCTION

Internal reconstruction aims at reorganisation of the capital structure of a particular company in order to new life to the company. It includes both alternation and reduction of share capital.

a) Alteration of Share Capital:

Under provisions of sections 94 to 97 of the company's Act alteration can be done which includes increase of share capital by issuing new shares, dividing all the shares into larger to smaller denomination, conversion of fully paid shares into stock or stock into shares and cancellation of the uninssued shares.

b) Reduction of Share Capital:

As per the provisions of section 100 to 105 of the Company's Act a company can reduce its share capital. It can be done by writing off lost capital. by refunding surplus paid up capital and to redOcing liabilities of the members for uncalled capital.

It is to be carefully observed that reduction of capital cannot be effective until a copy of the resolution and sanction of the court is filed. It must be registered with the registrar of the Joint Stock Companies.

c) M6del Entries:

a) When reducing the liability on account of uncalled

capital Share capital a/c Dr (old) To

Share capital a/c (new)

b) When Capital Reduction in created

Share capital a/c Dr
Debtors a/c Dr
Creditors a/c Dr
To Capital Reduction a/c

c) When losses are written off

Capital Reduction a/c Dr

To fictious assets a/c

To accumulated losses a/c

To assets a/c

Note: 1 Fictious assets

Goodwill a/c

Preliminary expenses
Discount on shares
Discount on debentures

Patents and Trademark

* Profit and Loss A/c (Debit balance) D)

Problems & Solutions :

Note: 2 Accumulated Losses

Illustration : 1

Following is the summarised Balance Sheet of Sai Co. Ltd., as 31⁵t March 2004.

Liabilities Assets

 2,500 Equity shares of
 Net sundry Assets:
 1,01,400

 Rs. 100 each fully paid
 2,50,000
 Profit & Loss a/c
 1,48,600

 2,50,000
 2,50,000
 2,50,000

The company feels that the worst is over and hence it adopts a scheme of reconstruction reducing all its equity shares in to an equal number of fully paid equity shares of Rs. 40 each,

Pass Journal entries and prepare the Balance Sheet immediately after the reconstruction.

Solution:

Journal Entries in Sai Co. Ltd.

a) Equity share capital a/c (100/-) Dr 2,50,000

To equity share capital a/c (40/-) each) 1,00,000
To capital Reduction a/c 1,50,000

(being capital reduction is created to

write off losses)

Capital Reduction a/c Dr 1,50,000

To Profit & Loss a/c 1,48,600
To Capital Reserve a/c 1,400

(Being losses of written off, the balance of capital reduction a/c transferred to Capital Reserve a/c)

Balance sheet of Sai Company Ltd after reconstruction as at 31s¹ March 2004

6.15

Liabilities 2500		Assets	
equity shares of Rs.		Net sundry assets	1,01,400
40 each fully paid	1,00,000		
Capital Reserve	1,400		
	1,01,400		1,01,400

Illustration: 2

mustration . 2			
The summarised Balance S	heet of X compa	any Ltd. as on 31-3-2001 w	as as below
Liabilities	Rs	Assets	Rs.
5000 Equity shares of		Goodwill	90,000
Rs. 100 each	5,00,000		
6%_Debentures	2,00,000	Land & Buildings	1,00,000
Profit prior to			
Incorporation	10,000	Plant & Machinery	2,40,000
Creditors	1,40,000	Patents	30,000
Bank Overdraft	50,000	Bank	5,000
		Debtors	90,000
		Motor Car	10,000
		Stock-in-Trade	95,000
		Profit & Loss A/c	2,00,000
		Preliminary Expenses	40,000
	9,00,000		9,60,000

The business has passed through a depression and the worse seems to have been over. The following scheme of reconstruction is adopted with the consent of all:

- a) Each share was to be reduced to one-fifth of its value.
- b) Each shareholder was to subscribe for half the number of shares already held by him, at its new value and pay immediately in cash for the new shares taken by them to help the company with working capital.
- c) All fictitious items including Goodwill and Patents were to be eliminated.
- d) A provision of 5% on Debtors in respect of Doubtful debts was to be created.
- e) Half of the motor car was to be written down and the balance of the amount available to be used to written off plant and machinery.

Advanced Financial Acc

6.16

Recon.Company Accounts

You are asked to give the journal entries necessary to record the above and show the resulting balance sheet.

Solution:

Working Note:

Note 1: Equity Share Capital = 5,00,000/-

Capital Reduction = 5,00,000 x 4/5

 $5,00,000 \times 4/5 = 4,00,000/-$

Equity Share Capital = $5,00,000 \times 1/5 = 1,00,000/-$

Note 2 New Equity Share Capital

(5000*1/2*20) =50,000/-

Note 3 : Capital Reduction = 4,00,000/-

* Good will = 90,000/
* Patents = 30,000/
* Profit & Loss A/c = 2,00,000/
* Preliminary Expenses = 40,000/

* R.B.D. = 4,500/
* (90,000 x 5/100)

* Motor Car = 5,000/-

* Plant & Machinery (B/F) = 30,500/-

Date Particulars L Debit Credit F (Rs) (Rs)

1. Equity Share Capital a/c Dr

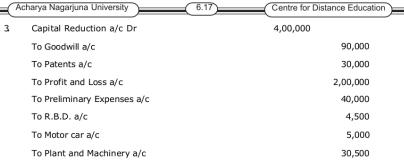
1,00,000

5,00,000

To Equity Share Capital a/c
To Capital Reduction a/c

4,00,000

(Being capital Reduction is created as per scheme)



(Being Capital Reduction account is transferred to fictitious assets and other assets as per scheme)

Balance Sheet of X Company Ltd as on 31-03-2001

Liabilities	Rs.	Assets		
Share Capital		Goodwill	90,000	
7500 Equity Shares of @ Rs. 20/- each	1,50,000	(-) written of	90,000	- Nil
		Land & Buildings		1,00,000
6% debentures	2,00,000			
		Plant & Machinery	2,40,000	
Profit prior to		(-) written off	30,000	
Incorporation	10,000			- 2,09,000
		Bank	5,000	
Creditors	1,40,000	(4-) Receipts	50,000	- 55,000
Bank Overdraft	50,000	Deucors	90,000	
		RBD	4,500	
				85,500
		Motor Car	10,000	
		(-) written off	5,000	
				- 5,000
		Stock in Hand		95,000
	5,50,000	•		5,50,000
		•		

Illustration: 3

- 3. The share capital of Govind Ltd. consisted of the following:
- a) 10,000 11% preference shares of Rs. 10 each and
- b) 50,000 equity shares of Rs. 10 each

The shares were fully paid. By the end of 2002-03, it had accumulated losses to the extent of Rs. 3,50,000 besides preliminary expenses totaling Rs. 20,000. It was also ascertained that the fixed assets which stood in the books at Rs. 14,20,000 were overvalued to the extent of Rs. 4,20,000.

A scheme of Capital Reduction was adopted and approved by the Court in order to remove the vervaluation and to write off the losses and preliminary expenses. Under the Scheme the 11% reference shares were to be converted into 14% preference shares of Rs. 60 each and the equity shares were to be converted into shares of Rs. 2 each. Also the dividends on the preference shares which were in arrear for 3 years were to be cancelled. State the journal entries to be passed on the in4plementation of the scheme

WOrking Note:

1) 14% Preference share capital = 10.000 x 60 = 6,00,000 New Equity Share Capital = 50,000 x 2 = 1.00,000

2) Arrears of Dividends = $(10:00,000 \times 11/100 \times 3 = 3,30,000)$

a) 11% Preference Share Cpital a/c Dr 10,00,000 Equity Share Capital a/c Dr 5,00,000

To 14% Preference Share Capital a/c 6.00,000

To Equity Share Capital a/c 1,00,000

To Capital Reduction a/c 8,00,000

(Being Capital Reduction is created to write off losses and over valuation of assets as' per scheme)

b) Dividend arrears to preference share holders a/c Dr 3,30,000

To Capital Reduction a/c 3,30,000

(Being dividend cancelled for 3 years in a scheme of Reconstruction)

c) Capital Reduction a/c Dr 11,30,000

 To Profit and loss a/c
 3,50,000

 To Preliminary Expenses a/c
 20,000

 To Fixed Assets a/c
 4,20,000

 To Capital Reserve a/c
 3,40,000

(Being the amount of capital reduction account used to write off Profit & Loss a/c, preliminary expenses and over valuation of Fixed assets **and the** balance transferred to Capital Reserve a/c)

6.4. SUMMARY:

Sometimes it becomes necessary for a company to face the disastrous situation and to meet the challenges or competition in the sphere of Business to take the assistance of a well established and flourishing company by way of amalgamation or absorption. As regards experiencing heavy losses, with toe consent of the share or debenture holders, a company prefers to go for Reconstruction, either by alteration of share capital or by reduction of share capital.

6.5. Key Words:

- 1. Amalgaitnation
- 2. Absorption
- 3. Reconstruction
- 4. Purchase Consideration
- 5. Lumsum Method

1. Amalgamation:

When two or more companies carrying one similar business taken over by a newly formed company for the progress in business, it is called amalgamation.

2. Absorption:

It one or more companies are taken over by a company already in existence, it is called absorption.

3. Reconstruction:

It means reorganisation of company's financial structure.

4. Purchase Consideration :

Purchase consideration means the purchase price agreed upon, which is paid by the purchasing company inorder to pay to the Vendor Company.

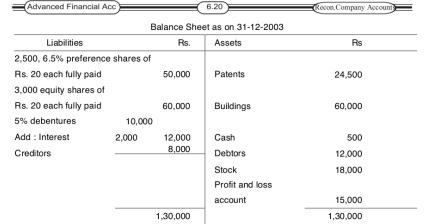
5. Lumsum Method:

A Lumsum amount is paid to Vendor.

6.6. SELF ASSESSMENT QUESTIONS:

- 1. What are the various provisions for Capital Reduction under Companies Act 1956?
- 2. Explain the various provisions of alteration of share capital as given in the Companies act 1976.?
- 3. Define the word reconstruction. What entries are passed by a company at External and **Internal** Reconstruction.?

The Balance Sheet of X ltd. is as follows:



The following scheme was passed and sanctioned

- a) A ltd. to be formed to take over the business.
- One share of Rs. 10 fully paid in the new company to be issued for every three equity shares in the old company
- c) Three shares of Rs. 10 fully paid in the new company to be issued for every five preference shares in the old company
- d) Debenture holders to be paid in fully by A ltd
- The creditors to receive 80% of the sums due to them in fully paid shares of Rs. 10 in the new company in full settlement
- f) Patents and profit and loss account to be written off
- g) Arrears of preference dividend to be cleared by issuing one Rs. 10 fully paid equity share in A ltd. for every twenty held.

Any balance available by the scheme to be used in writing down buildings.

Give opening journal entries and prepare the initial balance sheet of A ltd. 6.

External Reconstruction:

On 31st March 2002 the balance sheet of H ltd. was as follows :

Liabilities	Rs	Assets	Rs
Share capital (50,000		Goodwill	4,00,000
12% cumulative		Plant and Machinery	7,00,000
Preference shares of		Furniture and Fixtures	2,00,000
Rs. 10 each, fully paid)	5,00,000	Patents	1,50,000

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		Stock	4.90,000
1,50,000 equity shares		Debtors	2,55,000
of Rs. 10 each fully		Bank	5,000
paid	15,00,000	preliminary expenses	8,000
10% Debentures	3,00,000	Discount on issue of	
Creditors	2,00,000	debentures	12,000
Preference dividend In arrear for 3 years		Profit and Loss Account	2.80,000
	25,00,000		25,00,000

The following scheme of external reconStr6ction was agreed upon:

- A new company to be formed called J LG. with an authorised capital of Rs. 32,50,000 in equity shares of Rs. 10 each
- b) One equity share Rs. 5 paid up in the new company to be allotted for each preference share in the old company.
- Two equity shares Rs. 5 paid up in the new company to be allotted for each preference share in the old company
- d) Arrears of preference dividends to be cancelled.
- e) Debenture holders to receive 30,000 equity shares in the new company credited as il-
- f) Creditors to be taken over by the new company.
- g) The remaining unissued shares to be taken up and paid for in full by the directors.
- h) The new company to take over the old company's assets except patents, subject K down plant and machinery by RE.' 2 0,000 and stock by Rs. 60,000
- i) Patents were realised by H Ltd:, fo IIs. 10,000

Show important ledger accounts in the books of H Ltd. and open the books of J Ltd. by me-of journal entries and give the ini ial Balance Sheet of J ltd. Expenses of J Ltd. came to Rs. 10,000

- Venkata Ramana Company Ltd passed necessary resolution and received sanction of the court for the reduction of its s are/ capital by Rs. 2,50,000 for the purpose enunciated here under.
- a) To write off the debit balance of profit and loss a/c Rs. 1,05,000.
- b) To reduce the value of plant and machinery by Rs. 45,000 and of goodwill by Rs. 20,000
- c) To reduce the value of investment to market value by writing off Rs. 40.000.

The reduction was made by converting 25,000 preference shares of Rs. 20 each fully paid to the same number of preference shares of Rs. 15 each fully paid and by converting 25,000 equity shares of Rs. 20 each, Rs. 15 paid up into 25,000 equity shares of Rs. 10 each fully paid.

Show journal entries necessary in relation to the reduction of share capital and show how would you deal with the balance of reduction of share capital a/c.



Recon.Company Accounts

8. The following is the balance sheet of Andhra company Ltd., as at 31st December 1982

Liabilities	Rs	Assets	Rs.
Authorised Capital 6,000 shares of Rs. 100 each	6,00,000	Goodwill	70,000
Issued and subscribed Capital : 2,000 Shares of Rs. 100 each fully paid	2,00,000	Land & buildings	80,000
200 5% Debentures of Rs. 1,000 each fully Paid	2,00,000	Plant & Machinery	1,50,000
Sundry Creditors	50,000	Stock	50,000
Bills Payable	5,000	Sundry Debtors	43,000
Bank Overdraft	45,000	Cash at Bank	2,500
		Preliminary Exp.	4,500
		P&L A/c Debit Balance	1,00,000
	t,00,000		5,00,000

The following scheme of reconstruction was duly approved and adopted :

- a) Without altering the number of shares in Authorised capital or Issued and subscribed capital, the face value and the paid-up value of each share be reduced to Rs. 50,.
- b) The existing debentures be converted into 1,000 71/2% debentures of Rs. 1,000 each fully paid.
- c) Assets be revalued as under :

Land and building - Rs. 72,000 ; plant and Machinery - Rs. 1,40,000

Stock - Rs. 45,000;

Sundry Debtors subject to a Bad Debts reserve of Rs. 2,500

Goodwill, preliminary expenses and debit balance of profit and loss account be completely written

The Balance Sheet of the Vijaya lakshmi Shipping company Ltd. as at 31st December 1979 was as follows:

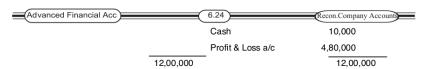
Liabilities	Rs.	Assets	
Share capital : 1,00,000 preference shares of Rs. 10 each	10,00,000	Freehold works, plant and Machinery	36,02,474
2,00,000 ordinary shares of Rs. 10 each	20,00,000	Freehold Estate	1,06,760
Debentures	12,00,000	Shares in other companies	1,34,807
Creditors	1,45,523	Steamers	1,64,453
Insurance Reserve	5,577	Rolling Stock	1,28,721
General Reserve	1,08,823	Furniture	1,216
Profit & Loss a/c	47,770	Stock	1,37,051
		Debtors	93,657
		Bank	1,37,216
		Cash	1.338
	45,07,693		45,07,693

A scheme for the reduction of the capital, approved by the court was adopted by which Rs. 4.00 per share was to be written off the preference shares and Rs. 6 per share off the ordinary shares. The scheme provided for the under mentioned reductions in the assets:

Freehold works by Rs. 15,72,013, Freehold Estate by Rs. 6,761 shares in other compares Rs. 62,610; steamers by Rs. 40,453; Rolling stock by Rs. 33,721 and that the General f-..?serve should be extinguished and the difference be transferred from profit and loss account You are required to draft the balance sheet of the company, after carrying out the terms of the scheme, as set out above.

9. On 30L" June 2004, the Balance sheet of Novelties Ltd. stood as under :

Liabilities	Rs.	Assets	Rs.
Authorized capital 10.000 ordinary shares		Land & Buildings	2,00,000
of Rs. 100 each	10,00,000		
ssued and paid up capital : 3,000 ordinary shares of		Plant & machinery	3,00,000
Rs. 100 each	8,00,000		
Loan from Mohan & Co.	2,00,000	Furniture & Fixtures	10,000
Creditors	2,00,000	Stock	70,000
		Debtors	80,000
		Goodwill	50,000



The company having now become a profit - earning concern, the following scheme of reconstruction was agreed upon, after carrying out the necessary formalities.

- a) The Rs. 100 shares are to be reduced to Rs. 50 each
- b) The 2,000 unissued shares are now to be issued as fully paid to Messrs Mohan & Co. in full settlement of their loan.
- c) The agreement with the Andhra Bank Ltd for a loan of Rs. 70,000 on the mortgage of the concern be confrmed and the loan be taken.
- d) The creditors give up 25 paise on a rupee and accept debentures for Rs. 1,00,000 and Rs. 50,000 in cash in full settlement of the amounts due to them.
- e) The amount thus rendered available is to be utilised towards written off goodwill and profit and loss account (loss) entirely and the balance to be written off the plant and Machinery account.
- f) Give necessary Journal Entries to carry out the above scheme of 'Reduction of share capital and Reconstruction" and prepare the balance sheet of the company after completion of the scheme, as from I July 2004.

6.7. SUGGESTED READINGS

1.	"Advance Accountancy"	S.P. Jain
2 .	"Advanced Accounts" Volume – II	K.L. Narang 11 M.C. Shukla
		T.S. Grewal
		S.C. Gupta
3 .	Problems and Solutions in	
	Advance Accounting	R.L. Gupta
4 .	Advance Accountancy" Volume - II	S.N. Maheswari

Dr. P. L. Narasimha Rao

Lesson - 7

PREPARATION OF CONSOLIDATED BALANCE SHEET

OBJECTIVES

- to know the meaning of Holding companies and Subsidiary companies.
- to know the steps involved in preparing Consolidated Balance Sheet.

STRUCTURE:

- 7.1 Introduction
- 7.2 Definition
- 7.3 Advantages of Holding Companies
- 7.4 Disadvantages of Holding Companies
- 7.5 Accounting System in Holding Companies
- 7.6 Preparation of Consolidated Balance Sheet
 - a) Ratio between Holding Company and Subsidiary Company
 - b) Calculation of Goodwill
 - c) Calculation of Capital Profits
 - d) Calculation of Revenue Profits
 - e) Calculation of Minority Share Holder's interest
 - f) Treatment of Unrealised profits
 - g) Inter Company Transactions
 - h) Revaluation of Assets and Liabilities
 - i) Treatment of Dividends
- 7.7. Summary
- 7.8. Keywords
- 7.9. Self :Assessment Questions
- 7.10. Suggested Readings

7.1 Introduction:

It is obvious that HOlding Companies can nominate the majority of directors in other companies who as §ubsidiary companies and therefore a holding company usually holds the majority of paid up equity share capital. When a company reachers he stage of floating another company holding majority of shares, it becomes a parent company. The existing companies in order to avoid competition float a company which holds a majority of their shares.

Advanced Financial Acc 7.2 Cons.Balance Sheets

7.2. Definition:

Section 4 of the Companies Act, 1956 defines a Holding Company and a subsidiary company by their relation to each other. A company shall be deemed to be a subsidiary of another if, but only if

- a) the other company controls the composition of its Board of Directors : or
- b) the other company (i) holds more than half of the nominal value of its equity capital, or (ii) if it is an existing company (i.e., a company formed before 1 April 1958 with both equity and preference shareholders, having equal voting rights, the other company controls more than half of the total voting power: or
- c) it is a subsidiary of any company which is the other company's subsidiary.

To make it clear a company is termed to be the holding company of another only when the other is its subsidiary. Therefore a holding company is one which has control over one or more other companies. It is to be noted that there is no liquidation of subsidiary company. Moreover, its separate legal entity cannot be disturbed. The point is only acquisition of shares in the subsidiary company but not its assets or liabilities. Preparing consolidated Balance Sheet is common.

7.3. Advantages of Holding Companies:

In the USA the concept of Holding companies becomes useful and fruitful in bringing a number of companies under one control and gradually the holding companies become popular.

The very first advantage of the holding companies is that the public do not know the existence
of combination among the various companies and hence the matter of monopoly cannot enter the
minds of the people.

Losses can be carried and forwarded for Income Tax purposes.

The persons who have the majority of shares need invest comparatively small amount in the order to control the subsidiary company.

Subsidiary companies can have their separate identity and also goodwill.

The subsidiary companies prepare their own accounts and so the financial position become known to every body.

7.4. Pisadvantages of Holding Companies :

Inter - Company transactions are entered at low prices to facilitate the Holding companies.

 Minority shareholders may be oppressed because of too high of too low prices in inter-company transactions, difficulties in accounting may arise.

Accounts may be manipulated Fraudulently.

The true financial position of the subsidiary company may not be known to the share holders.

7.5. Accounting system in Holding Companies

As perioe companies Act, the financial year of a holding company and the subsidiary company should end on the same date. But as per section 213 (1) of the companies act, the Central

Government may issue directions to holding companies or subsidiary companies to extend the financial year of it is essential. In any case the time gap between the close of the financial year of the two, the holding or the subsidiary should not be more than six months.

Unlike the practice in England, in India it is not compulsory for the holding company to make a Consolidated Balance Steet and Consolidated profit and loss a/c. But one point must be carefully followed. According to section 212 of the companies act a Holding company has to attach the necessary documents (listed hereunder) with its balance sheet in respect of each of its subsidiary.

A copy of the balance sheet subsidiary

A copy of its profit and loss account

A copy of the report of its board of Directors

A copy of the report and its auditors etc.

7.6 Preparation of Consolidated Balance Sheet

While preparing the consolidated balance sheet the student has to note the following points:

Ratio between the Holding Company and Subsidiary Company

Suppose A Limited is the holding Company and

b) Calculation of Goodwill (or) Capital Reserve :

Good will : When the Holding Company purchases the shares of subsidiary co. by paying more than face value, the excess paid is treated as Goodwill.

- a) For mample X Ltd. is Holding company and Y Ltd. is subsidiary company in Y Ltd. There are 12,000 shares of Rs. 10 each. Out of them X Ltd. purchased 8,000 shares for Rs. 1,20,0000/
 - a) Calculate the ratio between X Ltd. and Y Ltd.
 - b) Calculate the Goodwill.

Sol: Ratio between X Ltd. and

Y Ltd. X Ltd. Y Ltd.

8000 _____ 4000

2:1 (Ratio)

In the above example purchase price of 80000 shares is 1,20,000/- the face value is (8000 x 10) 80,000/-. The excess paid is (1,20,00 - 80,000) Rs. 40,000 is treated as Goodwill.

13) Capital reserve: When the holding company purchases shares from the subsidiary company, less than the face value, the difference between face value and the amount paid is treated as capital reserve.

Advanced Financial Acc

7.4

Cons.Balance Sheet

For example P Ltd. is Holding Company and Q Ltd is subsidiary company in R Ltd. 10,000 shares are there out of them P Ltd. purchased 6000 shares for Rs. 40,000/- Capital Reserve is (60000 – 40000) 20,000/-.

c) Calculation of Capital Profits :

The profits and reserve in the subsidiary company on the date of shares acquired by the holding company is treated as capital profits.

Illustration -

For X Ltd. purchased shares from Y Ltd. on 01-07-2003.

The Balance Sheet of X and Y Ltd on 31-03-2004 are as follows:

C	X Ltd.	Y Ltd.	A	X Ltd.	Y Ltd
Share Capital	10,00,000	0,00,000	Sundry assests	7,60,000	10,60,000
General (1-4-03) Reserve	1,00,000	50,006	Investment in. Y Ltd. (60,000 Shares)	7,00,000	
P&L a/c (1-4-03)	60,000	30,000			
Profit during the year	1,00,000	80,000			
Creditors	2,00,000	1,00,000			
	14,60,000 1	0,60,000		14,60,000	10,60,000

Calculate the following

- a) Patio between X Ltd. and Y Ltd.
- b) Cost of control.

Sol:

Ratio between X Ltd. and Y Ltd.

No. of shares in Y Ltd. = $\frac{8,00\,000}{10} = 80,000 \text{ shares}$

No. of shares purchased

by X Ltd — 60,000 (Shares)

The shares held by Minority Share Holders = (80,000 - 60,000) = 20,000 shares (Remaining in Y Ltd.)

The Ratio between X Ltd and Y Ltd is

X Ltd — Y Ltd. 60,000 20,000

3 :1 (Ratio)

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7.5

Centre for Distance Education

Goodwill

The Purchase price of 60,000 shares

7.00.000

Less Face value of 60,000 shares

= 6,00,000

(60,000 * 10)

Capital Profits	Goodwill	1,00	0,000	
Reserve in Y Ltd on 01-0)4-2003	=	50,000	
Profit in Y Ltd on 01-04-2	2003	=	30,000	
Profit from 01-04-2003 to	01-07-2003	=	20,000	
80.000*3 / 12				
Сар	ital Profit		1,00,000	
Share of X Ltd. =	1,00,000	* 3/4	75,000	
Share of Y Ltd. =	1,00,000	* 2/4	25,000	

Net Goodwill (cost of control) = 2500.0 = (1,00,000 - 75,000)

d) Calculation of Revenue Profits

Profits earned by subsidiary company after acquiring the shares by holding company are called Revenue Profits. In the above illustration 1 the profits are as follows:

Sol

Shares purchased by X ltd., from y ltd., is

1-07-2003

Date of Balance Sheet is

31-03-2004

Profits earned by y Itd during the year is

80,000

Profits from 01-07-2003 to $31-03-2004 = (80,000 \times 9/12) = 60,000/-$

Share of x ltd., is 60,000 x 3 / 4	45,000
Share of y ltd., is 60,000 x 2 / 4	15,000

The x ltd share of profit Rs. 45,080/- is considered as Revenue Profit of holding companies and it will be added to the x ltd's profits in the consolidated Balance Sheet -

The y ltd., share of profit Rs.15,000/- is to be added to minority share holder's interest.

e.Minority Share Holders Interest

The amount related to Y ltd., is treated as minority share holders interest as per the illustration

1. The amount of minority share holders interest is as following:

Advanced Financial Acc 7.6		Cons.Balance Sheets
Face value of the remaining shares in Y ltd., (20,000 x 10)	=	2,00,000
Y ltd., share of capital profits		25,000
Y ltd., share of revenue profits		15,000
Minority Share Holders Interest	=	2,40,000

• The above will be shown in the liability side of consolidated Balance sheet. F.

Treatment of unrealised profit

Sometimes holding companies may buy the goods from the subsidiary companies or subsidiary companies may buy the goods from the holding companies. While selling these goods, the selling company may include some percentage of profit to the cost plus profit or sale price out of these conclusions, at the end of the year the profit included in the unsold stort is treated as unrealised profit. If the holding company sells the goods to the subsidiary companies the profit included in the unsold stock is treated as unrealised profit.

- * If subsidiary company sells the goods to holding company out of the profits included in the unsold stock, the stare of holding companies becomes the unrealised profit. The unrealised profit will adducted from the profit and loss a/c on the liabilities side of Balance sheet, later the same amount will be shown as deduction from stock on the assets side of consolidated Balance Sheet.
- a) X Ltd. is the Holding company, Y Ltd., is the Subsidiary Company. X ltd., sold the goods to y 31., for Rs. 24,000/- at cost plus 20% out of these purchases Rs. 6,000/- worth of stock is in unsold stock at the end of the year.

Profit as regards unsold stock = 60,000 x 20/120 = 1000

b) If X ltd., is the holding company Y ltd., is subsidiary company. Y ltd., sold the goods to X ltd., for Rs. 24,000/- during the year at cost plus 20% out of this purchases the stock Rs. 6,000/- worth remained in unsold stock at the end of year at X ltd..

Profit incurred in unsold stock = 60,000 x 20/120 = 1000

- * Out of Rs. 1.000/- tl le share of holding company becomes unrealised profits.
- c) Inter = Company Transactions :

The holding company and the subsidiary company can maintain inter-company transactions and these transactions may relate to any one or more of the following matters:

- a) Either the holding company or the subsidiary company can grant loans.
- b) The holding company or to the subsidiary company has freedom in the sale of goods on credit.
- c) Bills of exchange can be drawn by the holding company or subsidiary company

As a result of these inter — company transactions, certain accounts appear in the balance Sheet of the holding company as well as the subsidiary company. Therefore in the consolidated balance sheet these common accounts should not he repeated.

h) Revaluation of Assets and Liabilities

While preparing the consolidated balance sheet the subsidiary company may undervalue so the assets or over value the assets. In such situation we have to bring the actual value in the preparation of consolidated balance sheet.

- * If the assest is under valued we have to increase its value. It will be called capital profits)
- * If the assest value is over value, Then the value is to be decreased. (It will be called capital losses) i)

Treatment of Dividend

Some times, it so happens that a Subsidiary Company declares dividends to share holders related the profits of the previous year after acquring the shares by holding company. Such dividend is included in the profits and loss of the holding ampany and this amount is considered as capital profit, therefore this amount will be deducted from profit and loss as the holding company and the same amount will be added to Capital Resurge as the consolidated Balance sheet.

Illustration: 2

On 1st July 200 The H company Ltd., bought 75% of the shares of the S company Ltd., of Rs. 10 eac soully paid at Rs. 20 each. The following are the balance sheets of the companies as on 31-12-2003.

Liabilities				Assets		
	H Ltd. Rs.	S Ltd. Rs.		H Ltd. Rs.	S. Ltd., Rs.	
Share Capital	8,00,000	50,000	Fixed Assets	7,50,000	37,500	
General Reserve on 1-1-03	1,60,000	16,000	Stock	4,30,000	57,500	
Sundry Creditors Profit & Loss a/c	2,40,000	31,750	Debtors	2,75,000	30,000	
On 1-1-03	1,30,000	6,250	Shares in S Itd., 3,750 shares	75,000		
Profit for the year	2,00,000	21,000				
	15,30,000	1,25,000		15,30,000	1,25,000	

The Debtors olli Ltd., included Rs. 10,000 due from S Ltd., prepare a consolidated Balance Sheet as on 31-12-2003.

Solution:

Note: 1 Ratio between H Ltd. and S Ltd.

 H Ltd.
 S Ltd.
 H Ltd.,
 S Ltd.

 (or) 3750
 1250

 75%
 25%
 (Shares)

 3:1

Note: 2 Calculation of Goodwill

Purchase price of 3750 shares = 75,000/-

Advanced Financial Acc 7.8 Cons.Balance Sheets

Note: 3 Calculation of Capital Profits

 General Reserve in S Ltd (1-1-03)
 16,000

 Profit & Loss a/c (1-1-03)
 6,250

 Profit from (1-1-03 to 1-07-03)
 10,500

 (21000* 6/12)

32,750

Capital Profits 32,750

Cost of Control = 12937.50

Note: 4 Calculation of Revenue Profits

Shares purchased by H Ltd. in S Ltd. = 1-07-03

Date of Balance Sheet = 31-12-03

Profits earned by S Ltd. during the year is = Rs. 21,000

(Profits from 1-1-03 to 1-07-03) = $21,000^{*} 6/12 = 10,500/$

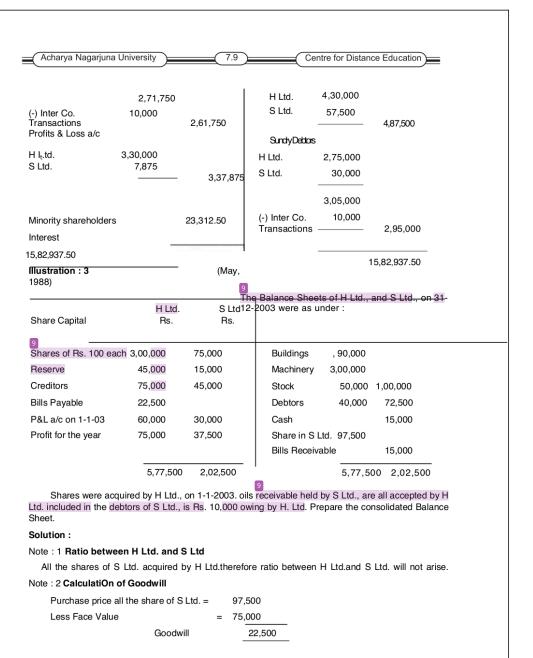
Share of **H** Ltd = $10,500^{*} 3/4$ = 7,875Share of S Ltd = $10,500^{*} 1/4$ = 2,625

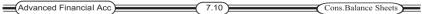
Note: 5 Calculation of Minority Shareholder's Interest

Face value of the remaining shares in S Ltd = 12,500.00
S Ltd. Share of Capital Profits = 8,187.50
S Ltd. Share of Revenue Profits = 2,625.00
Minority shareholders interest 23,312.50

CONSOLIDATED BALANCE SHEET AS ON 31-12-2003

Liabilities		Rs.	Assets		Rs.
Share Capital 100 each		8,00,000	Goodwill		12,937.50
General Reserve		1,60,000	Fixed Assets		-
Creditors			H Ltd.	7,50,000	Z
H Ltd.	2,40,000		S Ltd.	37,500	
S Ltd.	31,750				7,87,500
			Stock		





3 Calculation of Capital Profits

Reserve on 1-1-2003 = 15,000

Profit on 1-1-2003 30,000

Capital Reserve 45,000

Note: 4 Cost of Control (Net Capital Reserve)

(45,000 - 22,500) = 22,500/-

Note: 5 Calculation of Revenue Profit

Profit during the year — 37,500

CONSOLIDATED BALANCE SHEET ON 31-12-2003

LIABILITIES		Rs.	ASSETS		Rs.
Share Capital (100 each)		3,00,00°	Building		90,000
General Reserve		45,000	Machinery		3,00,000
Creditors H Ltd.	75,000		Stock H Ltd.	50,000	
S Ltd.	45,000		S Ltd.	1,00,000	
		1,20,000			1,50,000
Bills payable	22,500		Debtors H Ltd.	40,003	
(-) Inter co.	10,000		S Ltd.	72,500	
Transactions		12,500			
				1,12,500	
			(-) Inter Co.	10,000	
			Transactions		1,02,500
Profit & Loss a/c	60,000		Cash		15,000
(+) Profits	37,500		B/R		15,000
(+) Profits	75,000				
		1,72,500			
Capital Reserve		22,500			
		6,72,500			6,72,500

Acharya Nagarjuna Uni	versity	(7.11)	Centre for Distance Education
Illustration : 4			
(April, 198	7)		
The Balance Sheets	of H Ltd. and S Ltd	l. on 31st December. 20	03 were as follows :
	Balanc	e Sheet of H Ltd.	
Liabilities		Assets	
Share Capital	Rs.		Rs.
8,000 Equity Shares			
of Rs. 100 each	8,00,000	Lan	3,00,000
General Reserve	60,000	d & Buildings Plant	2,25,000
Profit & Loss a/c	1,00,000	& Machinery	
		Investments:	50,000
Sundry Creditors	1,80,000	Government securities	
		2,700 shares in S Ltd	. 2,97,000
Bills Payable	50,000	at cost	60,000
		Stock	1,50,000
		Sundry Debtors	48,000
		Cash at Bank	60,000
		Bills Receivable	
	11,90.000		11,90,000
	Baland	ce Sheet of S Ltd.	
Liabilities		Assets	
Share Capital 3,000	Rs.		Rs.
Equity Shares of R.			
100 each General	300,000	Land & Buildings	1,20,000
Reserve Profit &	20,000	Plant & Machinery	2,00,000
Loss a/c Sundry	10,000	Stock	45,000
Creditors Bills	90.000	Sundry Debtors	75,000
Payable	45,000	Cash at bank	15,000
		Bills Receivable	10,000
	4 65 000		4,65,000
	- 00 000	24	

- a) At the date of acquisition, General Reserve stood as nil and Profit and Loss A/c-showed a debit balance of Rs. 20,000 in the books of S Ltd.
- b) Bills payable of S Ltd. include Rs. 15,000 issued in favour of H Ltd. which <u>has discounted</u> Rs. 5,000 of them.

 11

 Prepare a consolidated Balance Sheet as on 31 December. 2003

```
Advanced Financial Acc
                                                                       Cons.Balance Sheets
                                             7.12
 Solution:
 Note: 1 Ratio Between H Ltd. and S Ltd.
      Number of Shares in S Ltd.
                                           3000
      Shares purchased by H Ltd.
                                           27.00
      Shares Remained in S Ltd.
                                            300
              (3000 - 2700)
                      S Ltd
     X Ltd
     2700
                      300
 Note: 2 Calculation of Goodwill
     Purchase of price of 2700 Shares
                                                  = 2,97,000
     (-) Pace value of 2700 shares (2700 x 100)
                                                  = 2,70,000
                                                          27,000
                                    Goodwill
     Loss on S Ltd on the date of acquiring shares by H Ltd.
                                                                              20,000
     Share of H Ltd. (20,000* 9/10)
                                                                    18,000
     Share of S Ltd. (20,000* 1/10)
                                                                     2,000
     Net Goodwill (27,000'- 18,000)
                                                                     9,000
 Note 3 Calculation of Revenue Profits
      General Reserve
                                 = 20,000
      Profits Loss a/c
                                  = 30,000
 (20,000 + 10,000)
                                    50,000
     Share of H Ltd. =
                             (50,000* 9/10)
                                                         45,000
     Share of S Ltd. =
                             (50,000* 1/10)
                                                           5,000
  Note: 4 Minority shareholder's interest
     Value of Shares in S Ltd
                                    = 300*100
                                                         30,000
     S Ltd. share in Revenue Profit =
                                                          5,000
                                                         35,000
     (-) Capital loss (share of S Ltd.)
                                                          2,000
     Minority shareholders interest
                                                         33,000
 Note: 5 Inter Company Transactions
     Bills of Exchange
                                    10,000/-
```

Liabilities		Rs.			
Share Capital 100 e	ach	8,00,000	Net Goodwill		45,000
General Reserve		60,000	Land & Buildings		
			H Ltd.	3,00,000	
			S Ltd.	1,20,000	
3	1 00 000				4,20,000
Profit & Loss a/c	1,00,000		Plant & Machinery		
(+) Profit	45,000	1,45,000	H Ltd. S Ltd.	2,25,000 2,00,000	
		, .,		2,00,000	4,25,000
Sundry creditors			Investments in Govt		25
H Ltd.	1,80,000		Securities		50,000
S Itd.	90,000	0.70.000			
Dillo Doveble		2,70, <mark>000</mark>	Otests		
Bills Payable H Ltd.	50,000		Stock H Ltd.	CO 000	
S Ltd.	45,000		S Ltd.	60, <mark>000</mark> 45,000	
o Liu.	45,000		o Liu.	45,000	1,05,000
	95,000				
(-) Inter Co. Tr.	10,000	85,000			
			Sundry Debtors		
			H Ltd.	1,50,000	
			S Ltd.	75,000	
					2.25,000
Minority Shareholder	'S		Cash at Bank		
Interest		33,000	H Ltd.	48,000	
			S Ltd.	15,000	63,000
			Bills Receivable		00,000
			H Ltd.	60,000	
			S Ltd.	10,000	
					60,000
				70,000	
		13,93,000	(-) Inter Co. Tr	10,000	13,93,000



ILLUSTRATION: 5

(October, 1988)

From the Balance Sheets and information given below, prepare a Consolidated Balance Sheet.

Balance Sheet asbn 31-12-2003					
Share Capital	H Ltd. Rs.	S Ltd. Rs.		H Ltd. Rs.	S Ltd Rs.
Rs. 10 Fully paid	1,00,000	20.000	Sundry Assets	80,000	12,000
Profit & Loss a/c	40,000	12,000	Stock	61,000	24,000
Reserve	10,000	6,000	Debtors	13,000	17,000
Bills Payable -		3,000	Bills Receivable	1,000	
Creditors	20,000	12,000	Shares in S Ltd.		
			1,500 share at cost	15,000	
	1,70,000	53,000	•	1,70,000	53,000

- All the profits of S Ltd., have been earned since the shares were aquired by H Ltd., but there was already the reserve of Rs. 6,000 on that date.
- The bills accepted by S Ltd., ale in all in favour of H Ltd., which has discounted Rs. 2,000 of
- Sundry Assets of S Ltd., are undervalued by Rs. 2,000 c)
- The stock of H Ltd., included Rs. 5,000 bought from S ltd., at a profit to the latter of 25% on cost.

SOLUTION:

Note: 1 Ratio between H Ltd. and S Ltd.

No. of Shares in S Ltd. 20,000/10 = 2000 shares

No. of Shares purchased by **H** Ltd. = 1500 shares

No. of Shares remained by S Ltd. (2000"- 1500) = 500 shares

Ratio = H Ltd. — S Ltd.

1500 **- 500**

3:1

Note: 2 Calculation of Goodwill

Purchase Price of 1500 Shares 15,000 (-) Face Value -15,000 Goodwill (nil)

10,000

Note: 3 Calculation of Capital Profits

General Reserve = 6,000

(=) under valuation of assets

brought to original value = 2,000 8,000

shares of H. Ltd. = 8000* 3/4 = 6,000 Share of S Ltd. = 8000* 1/4 = 2,000

Note: 4 Calculation of Revenue Profit

Profit of S Ltd. During the Year = 12,000

Share of **H** Ltd. = $12,000^{*} 3/4 = 9000$ Share of S Ltd. = $12,000^{*} 1/4 = 3000$

Note: 4 Minority Shareholders Interest

Face value of shares remained with S Ltd (500* 10) = 5000
Share of S Ltd. in Capital Profits = 2000
Share of S Ltd. in Revenue Profit = 3000

Minority shareholders Interest

Note: 5 Calculation of Unrealised Profit

Unsold stock = 50,000

Profit included = 25% on cost (25/125) Therefore, Profit included = $5000^* 25/125 = 1000$ Share of **H** Ltd. = $1000^* 3/4 = 750^*$

It is to be deducted from profit and loss on the liability side and same amount will be deducted from stock on the assets side of B/S

Note 6: Inter Company Transactions

Bills of Exchange = 1000

Consolidated Balance Sheet as on 31-12-2003

Liabilities		Rs.	Assets	Rs.
Share Capital		1,00,000	Sundry Assets	
Reserve		10,000	H Ltd.	80,000
Capital Reserve		6,000	S Ltd.	12,000
Bills payable	3,000			
(-) Inter Co.	1,000			92,000
		2,000	(+) Undervaluation	,

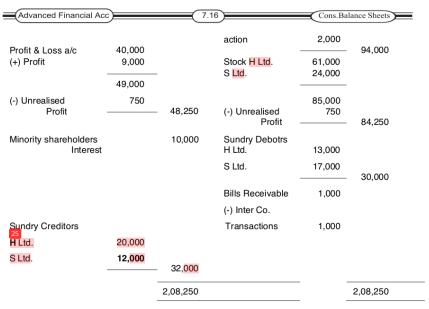


Illustration: 6

(April, 1986)

Senior Company Ltd. acquired 80% of both classes of shares in Junio Co. Ltd. as on 1-1-2003 at a total cost of Rs. 5,60.000. The Balance Sheets on 31-12-2003 when accounts of both Companies were prepared as un'der Balance Sheets as on 31-12-2003.

Liabilities	Senior	Co. Junior Co.	Assets	Senior Co. Junior Co.
	Rs.	Rs.		Rs. Rs.
		Share Capi	tal	
		Share Capi	lai	
15,000 Shares of	7,50,000		Land & Build.	5,15,000 1,50,000
Rs 50 each fully paid	d			
30,000 Equity		1,50,000	Plant & Machi.	1,50,000 1,35,500
Shares of Rs. 5 each	ı			
1,000 6% Preference	e			
Shares of Rs. 100		1,00,000	Debtors	1,40,000 79,000
Each				
General Reserve	4,75,000	10,000	Stock	1,70,000 1,01,000

Acharya Nagarjun	a University	7.17	Centr	e for Distance B	ducation
31 Profit & Loss a/c	4,00,000	1,80,000	Investments	5,60,000	
Creditors	75,000	80,500	Cash at Bank	1,65,000	55,000
	17,00,000	5,20,500		17,00,000	5.20,500

- Creditors of Senior Co. Ltd. include Rs. 30,000 purchases from the Junior Co. Ltd.. on which the latter Company made a profit of Rs. 7,500,
- Stock of Senior Co. Ltd included Rs. 15,000 Stock at Cost, purchased from the Junior Co. Ltd. part of the Rs. 30,000 purchases.
- iii) Profit and Loss Account of Senior Co. Ltd. includes dividend at the rate of 16% per annum from the Junior Co. Ltd. The divident was for the year 2002. General Reserve of Junior Co, Ltd. was the beance on 1-1-2003. The balance in profit and loss account at 1-1-2003 of Junior Co. Ltd. was Rs. 80,000, out of which dividend at the rate of 16% was paid on equity shares. The dividend in respect of Preference Shares for the year 2003 is still payable. Prepare the Consolidated Balance Sheet at on 31-12-2003.

Note: 1 Ratio between Senior Co. and Junior Co.

Senior Co. Junior Co. 80% 20%

No

4:1		
Note: 2 Calculation Goodwill (or) Cost of Control		
Purchase price of all the shares		5,60,000
(-) Dividend @16% on one Equity		
Capital of H Ltd. (1,20,000*16/100)		
is treated as capital profits		19,200
3		5,40,800
(-) Face value of preference shares	80,000	
Face value of Equity shares	1,20,000	2,00.000
		3,40,800
Less Capital Reserve		52,800**
Net Goodwill		2,88,000
Note: 3 Calculation of Capital Profit		
General Reserve as on 1-1-03		10,000
Profit & Loss a/c on 1-1-03	80,000	
(-) Dividend @ 16% on 1,50,000	24,000	56,000
		66,000

Advanced Financial Acc	7.18		Cons.Balance Sheets
Share of H Ltd. — 66000* 4/5			52,800
Share of S Ltd. — 66000* 1/5			13,200
Note : 4 Calculation of Revenue Profits	S		
Profit and Loss a/c on 31-12-2003			1,80,000
(-) Profit <mark>as on</mark> 1-1-2003		80,000	
(-) Dividend paid		24,000	
			- 56,000
			1,24,000
(-) Preference dividend payable for the			0.000
year 2003 (1,00,000* 6/100)			6,000
Profit available + equity shareholders			1.18,000
Share of H Ltd =		04.400	
* 1,18,000* (80/100) 4/5 = * 6,000* (80/100) 1/5 =		94,400 4,800	
0,000 (80/100) 1/3 =		4,800	99,200
Share of S Ltd =			
* 1,18,000* (20/100) 1/5 =		23,600	
6,000* 1/5 =		1,200*	24,800*
Out of which, the amount of Rs. 1200) is for prefer	ence Dividend	
Note 5 : Calculation of minority shareho	•		
Preference Shares			
* Face value of Preference shares			
(1,00,000* 20/100)	=	20,000	
* Dividend	=	1,200	04.000
1) F. 7. Oh.			_ 21,200
b) Equity Shares		20.000	
* Face Value (1,50,000* 20/100)	=	30,000	
* Share of capital profit	=	13,200	
 * Share of Revenue Profit (Preference dividend) 	=	23,600	- 66,800
Minority shareholders interest			88,000
Note: 6 Unrealised Profit			
7500* 15000/30000	= 37	50/-	

7.7. Summary

To conclude a Holding Company can have control over one or more companies with out any stort of disturbance as regards the legal entity: It is abvious that a holding company soon becomes aparent company. It facilitates acquisition of shares to greater percentages through the tree financial positions the subsidiary company not be know to the share holders. In our country it is not compulsory for a holding sempany to make a Consolidated Balance sheet but it has to submit the relevant documents (VIZ) profit and loss a/c Report of the Board of Directors and the auditors.

7.8. Key Words:

Holding Company

A Company which controls one or more other companies by

means of holding shares in that company.

Subsidiary Company A company controlled by a holding company is termed as a

subsidiary company.

Contingent Liabilities Contingent Liability is a liability which may or may not arise

Inter - Company Transactions : Transactions between the holding company and the subsidiary

company are known as inter company transactions.

Types **of** subsidiaries Subsidiary company may be "wholly owned subsidiary company "or" partly owned subsidiary company.

1. What is Holding Company? How it is defined under the Companies Act 1956?

2. What are the steps to be followed in the preparation of Consolidated Balance Sheet of Holding companies

3. Write short notes on the following

- a) Inter Company Transaction
- b) Unrealised profits
- c) Cost of control
- 4. Following are the balance sheets of A Ltd and its subsidiary **Z** Ltd as at 31 March 2001.

Liabilities	A Ltd. Rs.	Z Ltd. Rs.	Assets	A Ltd Rs.	Z Ltd Rs.
Share Capital			Machinery	3,00,000	1,00,000
Shares of Rs. 10 each			Furniture 70% shares in	70.000	45,000
fully paid	6.00.000	2,00.000	Z Ltd. at cost	2.60,000 -	
General Reserve	1,50:000	70,000	Stock	1,75,000	1.89,000

Acharya Nagarjuna University 7.19 Centre for Distance Education						
Profit * Loss A/c	70.000	50,000	Debtors	55,000	30,000	
Creditors	90,000	60,000	Cash at bank	50,000	10,000	
			Preliminary ex.		6,000	
	9,10.000	3,80.000		9,10,000	3,80,000	

A Ltd. acquired the shares of Z Ltd. on 30" June 2000. Old. April. 2000 Z Ltd. General Reserve and Profit and Loss account stood at Rs. 60,000 and 20,000 respectively. No part of preliminary expenses was written off during the year ended 31st March, 2001.

Prepare the consolidated balance sheet of A ltd. and its subsidiary Z Ltd. as at 31s' March 2001

[3] (5) R Ltd. acquired 6,400 equity shares of S Ltd. on Is' Jan. 2002. Following are the Balance sheets of the two companies as at 31⁻⁴ Dec. 2002.

6 Liabilities	9 R Ltd.	S Ltd.	Assets	R Ltd.	S Ltd.	
Share Capital : Equity Shares of Rs. 100 each	16,00,000	8.00,000	Land & Buildings Plant & Mach.	4,00,000 4,00,000	2,40,000 4,80,000	
General Reserve 1.1.02	3,20,000	1,60,000	Stock	1,20,000	80,000	
Profit & Loss A/c 1.1.02	80,000	48,000	Sundry Debtors	80,000	96,000	
Profit for the year 2002	60.000	64,000	Investment in shares of S Ltd	8,00,000		
Sundry Creditors	80,000	80,000	Bills Receivable	64,000	8,000	
Bills Payable	24,000	8,000	Cash & Bank	4,00,000	2,56,000	
	22,64.000	11,60,000	-	22,64,000	11,64,000	_
14			-			-

- a) Bills Receivable of R Ltd. include Rs. 8,000 accepted by S Ltd.
- b) Sundry Debtors of R Ltd. include Rs. 40,000 due from S Ltd.

c) Stock of S Ltd. includes goods purchased from R Ltd. for Rs. 48,000

Which were invoiced by R Ltd. at a profit of 20% on sales prepare a Consolidated Balance Sheet of Ltd. and its subsidiary S Ltd.

- a) Bills Receivable of R Ltd. include Rs. 8,000 accepted by S Ltd.
- b) Sundry Debtors R Ltd. include Rs. 40,000 due from S Ltd.
 c) Stock of S Ltd. includes goods purchased from R Ltd. for Rs. 48,000

Which were invoiced by R Ltd. at a profit of 20% on sales prepare a Consolidated Balance sheet of R Ltd. and its subsidiary S Ltd.

6. From the Balance Sheets given below, prepare a consolidated balance sheet of Moti Ltd., and its subsidiary company, Choti Ltd.. the interests of Choti Ltd., are to be shown as separate item.

Balance Sheet of Moti Ltd as on 30th June 1983

	balance Sheet of	Moti Ltd as on 30th June 1983	
Liabilities	Rs.	Assets 65	Rs.
Share Capital Authorised and Issad: 12,000 shares of		Freehold Buildings at cost Plant and Machinery at cost (Rs. 40,000)	72.000
Rs. 10/- each	1,20,000	Less: Depreciation	30,000
Trade Creditors	15,000	hares in Choti Ltd., at cost	
General Reserve	25.000	2,500 shares of Rs. 10/- each	25,000
Profit & Loss a/c	12,000		
		Sty at Cost	18,000
		Trade Debtors	22.000
		Bank Balance	5,000
	1,72,000		1,72,000
	Balance Sheet of	Choti Ltd. as on 30' June 1983	
Liabilities	Rs.	Assets	Rs.
Share Capital 3,000 shares of Rs. 10/- each	30,000	Leasehold Property at cost (Rs. 30,000) Less : Depreciation	25,000
Trade creditors	5,000	Plant and Machinery At cost (Rs. 15,000)	
General Reserve	6,000	Less: Depreciation	10,000
Profit & Loss A/c.	9,000	Stock at cost	3,000
		Trade Debtors	7,000
		Bank Balance	5,000
	50,000	- Ca	50,000

At the date of acquisition by Moti Ltd. of its holding of 2,000 shares in Choti Ltd. the latter company had undistributed profits and Reserve amounting to Rs. 5.000 none of which has been distributed since the date of acquisition.

7. HaLtd. Acquired 80% of the shares of S Ltd. on 1St January 1982 at a top cost of Rs. 4,25,000. The Balance Sheet of the two companies as on 31st December 1982 are as under :

7.21

			0		
Liabilities	H Ltd	S Ltd	Assets	H Ltd	S Ltd
	Rs.	Rs.		Rs.	Rs.
Share Capital Preference Shares of Rs. 100 each	2.00,000		Land & Buildings	4,65,000	1,85,000
Equity Shares of Rs. 10 each	5,00,000	2,50,000	Plant & Machinery	1,50,000	1,09,000
General Reserve	3,50,000	15,000	Stock	1,55,000	70,800
Profit & Loss A/c	3,00,000	1,50,000	Investments	4,25,000	
Sundry Creditors	70,000	65,000	Debtors	1,20,000	62,700
			Cash at Bank	1,05,000	52,500
	114,20,000	4,80,000	-	14,20,000	4,80,000

The following further \inf ormation is relevant :

- a) Sundry Creditors in H Ltd. include Rs. 20,000/- for goods purchased from S Ltd. on which the S Ltd. made a profit or Rs. 5,000/-
- b) Half of the goods sold as above were still included in the stock of H Ltd.
 c) The General Reserve of S Ltd. represents the balance on 1st January 1982. Profit and Lossovic balance as on 1st January 1982, was Rs. 50,000 out of which dividend at 10% was paid for the

Prepare the Consolidated Balance Sheet of H Ltd. and S Ltd.

8. On 1.07.1970, Janata Co. Ltd., purchased 11,000 shares of Rs. 10 each of Vijaya Company at Rs. 20/- per each share.

The B/s of two companies are as follows on 31-12-1970

Liabilities	Janata Rs.	Vijaya Rs.	Assets	Janata Rs.	V ₂₃ ya Rs.
Share Capital	4,00,000	1,20,000	Buildings	3,00,000	1,30,000
General Reserve	1,00,000	12,000	Sundry Assets	1,00,000	22,800
Creditors	30,000	20,000	Debits	40,000	30,000
PEL A/c On 1-07-70	50,000	6,000	Shares in Vijay & Co.	2,20,000	
	114,20,000	4,80,000		14,20,000	4,80,000



The Debtors of Janata Co., include Rs. 10,000 due from Vijaya Co., prepare consolidated Balance Sheet

8.10 SUGGESTED READINGS:

1. "Advanced Accounts" : MC Shukla & T.S. Grewal, S.C. Gupta

2. "Advanced Accountancy" : S.P. Jain & K.L. Narang

3. Advanced Accountancy" : S.N. Maheswari

Lesson - 8

FINANCIAL REPORTING

Objectives :

The objectives of this unit are to help you to understand :

- The objectives of Financial Statements
- The concept of financial reporting
- The essertials of an ideal report
- The main objectives of financial reporting
- The types of financial reports
- The functions of financial reports
- The benefits of adequate disclosure

STRUCTURE:

- Introduction
- **Objectives of Financial Statements**
- Concept of Financial reporting
- Principles of a good report 8.4
- Objectives of Financial Reports Types of financial reporting 8.5
- 8.6
- Functions of financial reports 8.7
- 8.8 Benefits of adequate disclosure
- Summary
- 8.10 Keywords
- Self-Assessment Questions 8.11
- 8.11 Reference Books

8.1 Introduction:

Accounting is an important service activity in business and is concerned with collecting, recording evaluating and reporting the results of past events. With the emergence of management accounting the focus of accounting has been shifting from mere recording of transaction to that of aiding the management in decision making. Accounting can be perceived as an information system to provide information to various parties such as shareholders. Government and Public etc. The important financial statements are profit and loss account, balance sheet and funds flow statements.

8.2 Objectives of Financial Statements :

- to provide reliable information about economic resources and their use in business 1. enterprise.
 - to provide reliable information about the change in net resources resulting from a business enterprise's profit directed activities in order to (a) show to investor expected dividend return; (b) show the operation's ability to pay creditors and suppliers, provide jobs for employees, pay taxes and generate funds for expansion. (c) provide management with information for

Advanced Financial Acc 8.2 Financial Reporting

planning and control and (d) show its long term profitability

- 3. to provide financial information useful for estimating the earnings potential of the firm
- 4. to provide other needed information about changes in economic resources and obligations

The particular objective of Financial Statements is to present fairly, and in conformity with Generally Accepted Accounting Principles, the financial position, results of operations and other charges in financial position. The statements admit that the particular objective is stated in terms of accounting principles, that are generally accepted at the time of the preparation of the financial statements. The general objectives fail to identify the information needs of owners and creditors. The main objective was to provide general purpose financial reporting, which provides information for unknown users having multiple decision objectives, providing information for specific user groups having known decision-objectives was not found operational.

8.3 Concept of Financial Reporting

Of all the functions of an accountant, the most difficult and complicated function is the communication of business facts and data to various parties. The function of communication is being performed through various reports and statements, which is some times called as reporting i.e. communicating through reports.

Reporting may be defined as communicating the facts and data through reports and statements to the persons for whom such facts and data are compiled and collected. The function of reporting starts when accounting function ends. Some times periodical reporting may be undertaken during the course of accounting function. Financial reports are those reports through which financial data are collected and communicated to the concerned. The report or statement may partake character of a draft, schedule, statement, charts, graphs, diagrams and any other method of statistical presentation. When facts and data are concerned. The report or statement may partake character of a draft, schedule, statements, charts, graphs, diagrams and any other method of statistical presentation. When facts and data are collected and complied from accounting records, and put in a written form, the resultant statements or reports are called accounting reports. Accounting reports consist of financial data and are in the form of schedules and statements.

Financial reporting includes not only financial statements but also other means of communicating information that relates, directly or indirectly, to the information provided by the accounting system-that is, information about an entergise's resources obligations, earnings etc., Financial reporting provides information that is useful to present and potential investors and creditors and other users in making rational investment, credit and similar decisions. The information should be investment, credit and similar decisions. The information should be comprehensible to those who have a reasonable understanding of business and economic activities and are willing to study the information with reasonable diligence.

Financial reporting should provide information to help investors, creditors and others to assess the amount, timing and uncertainty of prospective net cash inflows to the related enterprise.

Financial reporting provides information about an enterprise's financial performance during a period. Investors and creditors often use information about the past to help in assessing the prospects of an enterprise. Thus, although investment and credit decisions reflect investor's and creditor's expectations about future enterprise performance, these expectations are commonly based atleast partly on evaluations of past performance of an enterprise.

The primary focus of financial reporting is information about an enterprise's performance provided by measures of earnings and its components. Financial reporting should provide information about how an enterprise obtains and spends cash, about its borrowing and repayment of borrowing, about its capital transactions, including cash dividends and other distributions of enterprise resources of owners, and about other factors that may affect an enterprise's liquidity, and solvency.

Financial reporting. should provide information about how management of an enterprise has discharged its stewardship responsibility to owners for the use of enterprise resources entrusted to it. Financial reporting should provide information that is useful to managers and directors in making decisions in the interest of owners.

8.4 Principles of a Good Report:

A report must add to the knowledge of the recipient and hence must be drated by observing certain principles and guidelines. There are few guidelines that one should keep in mind while preparing a report. The following are the principles of a good report.

- i) Suitable Title.: Every report should bear a suitable title indicating the nature of its contents. It should also high light upon its origin and the person for whom it is meant.
- **ii) Simplicity:** Since report is a media of communication, it is imperative that it should be expressed in a language which can easily be understood by the recipient. In case the reports are of regular in nature, it is preferable to get language more or less standardized.
- **iii) Routine details :** Every report must contain routine details regarding the period of time, the data of its preparation, the units of information, the name of the person preparing and presenting it, names of persons to whom it is being submitted etc.,
- iv) Brevity: A report should not be unduly lengthy. It should be precise, concise, specific and pocurate. It should contain only what is relevant and should exclude what is insignificant. The report should be prepared in such a way that it leaves nothing unsaid what must be said and it contains nothing beyond what is required to present a clear cut picture of the facts being reported. It implies that the report should not be very much detailed and should not be voluminous. Such reports are not liked by the executives who have a little time available for the detailed study of such reports. But it does not mean that the report is so precise which does not furnish all facts and leaves executives to guess the things.
- v) Adaptability: The form of the report and its contents should as far as possible, be suited to the persons using it, to the purposes for which it is required and possible suggestions for taking remedial actions. It should be presented in various forms suiting the temperament and out look of different persons occupying managerial positions. A full appraisal of the personality of the persons placed at the different levels of management (top, middle and lower) should be made and a clear picture of the

information required by each of them should be decided before drafting the report. The contents of the report should be well planned. it must present a full and critical view of the situation and at the same time convey alternative suggestions and recommendations on actions to be taken.

- vi) Timeliness: Report should be prepared in time and presented timely, so that managerial action / decision may be taken before mistakes are allowed to accumulate. It is to be remembered that the purpose of historic information is often to supplement the personal qualities and facilities of the management. It would be just a waste of time and effort to prepare and convey information which is too late to be of use and interest. In addition to timely presentation of report, the frequency of presentation should also be determined. The frequent needs of the user, natural time cycle of basic data, cost of preparing the report, etc., are the factors, which would determine the frequency of submitting the reports.
- vi) The Principle of Exception: The support should be prepared by adhering the principle of exception whereby a report is to greater degree, limited to events highlighting illuminating priority areas calling for management attention and action. This principle of exception with reference to reporting implies that (i) information presented should be restricted to matters which are under the control of the user of the report, (ii) concentration should be allowed only on essential events / data, and (iii) the volume of report and data is considerably reduced to the bare minimum. It is however, held that this principle has limited use.
- vii) Accuracy: Accuracy of information / data in each report is a must. Of course, accuracy here signifies the reasonable accuracy. Taking into account purpose of and the cost involved in the preparation of a report, the degree of accuracy should be determined. It is generally contended that by suppressing unnecessary details, both the clarity and accuracy may be improved.
- viii) Medium of presentation: A report may be presented in several media. It may be in written form or Oral form or Graphic form. An ideal report is one which is presented in the form which carries successful blending of different media. The media decides the size and shape of the report.
- ix) Coordination of data: It is important that all accounting data passing in an organisation through reports should have sound basis and properly coordinated. It means that data used by different departments should not be unrelated, otherwise a lot of misunderstanding and confusion may arise which would defeat the very purpose of reporting.
- x) **Up-to-date**: An occasional survey should be made to find out as to which information is of current use. Similarly, a constant watch should be maintained to locate the reports which have become redundant. Out dated information use should be deleted and redundant reports should be scrapped. It means that report should be kept up-to-date by making revisions necessitated by the changing conditions.
- xi) Cost: A report is said to be ideal only when that cost of preparing it is reasonable and it is consistent with the benefits accuring from its use. The cost of preparing and submitting the report should never exceed the benefit to be derived from the use of such report.
- xii) Attractiveness: The report must be attractive and should provide an 'eye-appeal' in the sense that it should not go unheeded by its user. There are several ways in which the accountant may give the attractiveness or eye-appeal to the reports. Undoubtedly, he has to assume the role of an artist in making the report attractive and appealing.

xiv) Number **of reports**: It is, difficult to lay down any ideal number of reports to be used in an organisation. As a rule the report should not create additional report and, it should not given birth to the duplication of report and reports should be prepared and used only for selective areas. The number of reports should be kept as minimum as possible.

8.5 Objectives of Financial Reporting:

- To provide information which is useful to investors, creditors, and others in making rational decision.
- To assist investors and creditors in assessing future net cash flows to the enterprise in respect of amount, timing and uncertainty.
- To identify resources (assets) and claims against resources, both creditor claims (liabilities) and owner claims (owner's equity).
- 4. To show how an enterprise obtains resources and how that it uses them for.
- To provide information about enterprise performance and earning potential.

The objectives are achieved directly by means of preparing a balance sheet, cash flow statement and income statement.

8.6 Types of Financial Reports:

Information is the life blood of business. The efficiency of the organisation to a large extent is governed by the pertinence and regularity of information, provided those who performed that functions of management. Financial reports are those reports which provide information about the financial position of the concern, as on a specific date, or during the specific period. These reports are necessary for accounting purpose.

Various types of reports are used in the organisation. They any be classified in various ways. Some of the important points basing on which the reports are classified as follows:

1. On the Basis of purpose of Information :

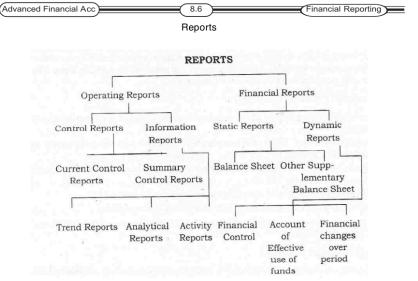
- a) Operating Reports
- b) Financial Reports

2. On the Basis of Groups :

- a) Internal Reports
- b) External Reports

On the Basis of purpose of Information

The reports on this basis may be classified into two categories: a) Operating reports and b) Financial reports: These two can further be reclassified as shown in the following chart.



- Operating Reports: Operating reports convey information in respect of operations the concern.
 Such reports are further classified in to a) Control reports and b) Information reports,
- a) Control Reports: Reports, which pre prepared to help the management in exercising the control over operations of the concern, are known as control reports. These reports are designed to meaasure the actual performance with standard and / or budgeted targets. They indicate the variances and the causes for such variances. These reports usually convey a detailed view of the operative activity and focus attention upon the 'off-standard' or 'above-standard' performances during a particular period. Such reports can be prepared veekly, monthly, quarterly or yearly. The control reports are further divided into (i) current control reports, and (ii) Summary control reports.
- i)Current control reports: These reports are intended to locate without loss of time and immediately the deviations of actual performances from standard or budgeted performance, so that prompt control / action can be taken. However, such reports are related to a small fragment of a whole period. Such control reports are usually prepared for the areas where much deviations are expected such as sales, income, factory overhead, etc.,
- ii) Summary control reports: These reports are intended to summaries, and the deviations from targets / objectives over certain period, so that necessary control can be initiated at higher levels. It may be remembered that current control reports convey deviation in a short period and call for control action at lower levels. But summary control reports call for action at the highest level.

- b) Information reports: The coverage of these reports is wider than that of control reports. Information reports are those reports which provide useful information for planning and policy formulation for the future. While control reports are intended to serve a driving force for control action and are confined to the efficient operation of the business, information reports aim of segregating those facts and presenting them in a simple of clear form which would greatly affect the planning and policies. These may be classified into i) Trend Reports ii) Analytical reports and iii) Activity reports.
- i) Trend Reports: Trend reports are those which provide information in a comparative fashion over a period of time. This, in the case of trend reports, the results between two or more periods are compared and changes are incorporated therein.
- ii) Analytical Reports: These reports provide information in an analytical manner about composition of certain results. A comparison of the same activity of different functional areas or comparison of actual results with standard or predetermined objective etc., is incorporated in such reports. Thus, the analytical reports are based on the horizontal comparison or results.
- iii) Activity Reports: Sometimes, in mation reports can be prepared on the basis of each activity / department. Such reports may be prepared in two ways i) Individual Activity reports and ii) Joint Activity reports. Individual reports are accomplishments under the direction of a particular executive. One of the other hand, Joint activity reports relate the activities accomplished under the direction of all executives.
- 2. Financial Reports: Financial reports are those which provide information about the financial position of the concern as on a specific date. These reports are necessary for accounting the success or failure of management's responsibility towards shareholders. Financial reports may further be classified i) Static and ii) Dynamic.

i) Static Financial Reports

Formally, a balance sheet is a static financial report. But some subsidiary statements, schedules are also prepared and attached to the balances sheet. These statements or schedules provide detailed information about the individual items shown in the balance sheet. The balance sheet and its supplementary statements are called static because they depict assets, debts and liabilities on a particular date.

- ii) Dynamic Financial Reports: Static reports are said to be inadequate in the sense that they reveal only the appraisal of soundness of financial policies and liquidity of assets. Dynamic reports are considered more useful because they reveal a number of aspects like.
 - i) the comparison of financial position with budgeted or forecasted position.
 - ii) the measurement of effectiveners of funds invested in, various assets.
 - iii) the change in financial position over a period of time.

From this point of view, the Dynamic reports may include the following :

a)Financial control Report: When a projected balance sheet is prepared as a part of regular operating budget, the actual balance sheet and projected balance sheet may be compared and such comparison would reveal information not only in respect of financial position but would also

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help in check and control. If supplementary statements are also prepared, then control over individual items can be made more effective.

- b) Report of Measure of effective use of funds: For a deep study of financial position, it is necessary to obtain information about the volume of investments in each asset and profit earned on it. Various measures are used to examine the profitability and effectiveness of the funds invested in various assets. A report containing information obtained through these measures is known as report of measure of effective use of funds.
- c) Report Of Financial Changes: Reports indicating the changes in financial position sween two periods are known as reports of financial changes, They include fund flow statement, cash flow statement and statement of changes in working capital.

3. On the Basis of Groups:

The reports Tim the view point of Groups, may be classified into two types

- External-Reports
- 2. Internal Reports

1. External Reports:

External reports are those which are prepared for the use of external parties, i.e., shareholders, Government officials, stock exchange authorities and other institutions. These reports may be of following types .

- a) Annual Accounts: Such reports include usually income statement, balance sheet and dirgops -reports. Reporting to shareholders have assumed wider dimensions in the present age. It is obligatory send to the shareholders a copy-of annual accounts. Adequate efforts have been made in various countries to improve the quality and quantity of information to be included in such reports:
- b) Reports to Government: In our country, it has been made obligatory to send a copy of annual accounts to the Registrar of Companies. In addition, sales-tax return, income tax returns, excise duty returns etc., are to be prepared and submitted to several authorities.
- c) Report to Stock Exchange: if the shares of a company are listed in a stock exchange, a report on the prescribed form has to be submitted to the stock exchange authorities. In addition, a copy of annual accounts has also to be sent to them.
- **d) Report to Financial Institutions:** A number of reports of varying nature and size have to be submitted to the various institutions from whom finance facilities are obtained.

2. Internal Reports :

Internal reports are those which are prepared for the use of internal parties like different levels of management, employees etc., These are not public documents and they do not have to be confirm to any statutory standards. In fact, these ver 40 ports function as a vehicle for communicating to the various levels of management. It is also significant to note that these reports are prepared keeping in to account the preferences and tastes of the recipients and purposes for which those are iinternal reports may further be classified into i) routine reports and ii) special reports.

- i) Routine Reports: As mentioned earlier, control reports are the best examples of routine reports. As such these reports are prepared and submitted when a control system exists. These are just to activate the control function. Reporting through these reports is described as feed back because the basic data for these reports do come from the recipient of the reports and are sent back to him in a different shape. The nature of information, details, periodicity, etc., would greatly depend upon the levels of management.
- ii) Special Reports: A budget plan, budgetary control and program, related operations and information reports all these provide significant and basic information for management decisions. But such information may be an inadequate for any management decisions and more details are required for decisions in certain areas of operations. And reports prepared on the basis of such special studies and analysis are known as special reports are needed for making specific decisions. Such reports contain extraordinary information, which are considered necessary to overcome a particular problem or situation.

Since special reports are prepared for providing information to help in decision making with regard to a particular problem, no particular principle or form can be laid down or standardized. Much will depend upon the nature of problem under study. Each report has to be prepared in such a form as to meet the objective for which it is being prepared. The data required for such report may not fully available with accounting department, and the data have to be generated and collected for which special staff may be appointed.

8.7 Functions of Financial Reports:

These reports stimulate corrective actions, in addition to help in planning and control. following are the functions of financial reports

- i) To provide Information: The main function of financial reports is to present and to communicate required information to operating management and top management. Operating management may include Foreman, Supervisors, Departmental Heads, Plant and Divisional Managers and Chief Executives. All these levels of management need information of varying degree and quality and such information are provided to them only through accounting reports.
- ii) To help in Control: Another function of financial reports is to help the management in executing proper and adequate control. The control can be made more effective through reports as comparate to personal investigation, survey and observation. Reports in fact provide is a base for control by obtaining necessary information in respect of each operative activity.
- iii) To have management by exception: At present the most important principle of management is 'Management by Exception;. The main genesis of this principle lies in the fact that the management should interfere only in those areas and only at that time where and when a particular activity is not being carried out according to planned one. In the case when operation is normal, the management should not interfere. As such the management must have sufficient and necessary information about the areas, where significant deviations from the standard or plan have taken place. All such deviations or variances are conveyed through the reports and therefore reports help much in observing the principle of Management by Exception'.

iv) To achieve the overall objective: Financial reports also itelp, though indirectly, the management in achieving the objective of maximum profit. Reports motivates the executives and personnel to take at necessary steps which may lead to the earning of adequate return.

8.8 Benefits of Adequate Disclosure through reports :

The users of financial statements should be in a position to evaluate and assess the company's performance, financial position, and present and future cash flows, in general, they should be able to make intelligent investment decisions necessary for efficient allocation of scarce resources.

Need for financial disclosure in reports:

- a) Full Disclosure: Full disclosure that means published financial statements and related notes should include any economic information related to the accounting entity that is significant-enough to affect the decisions of an informed and prudent user of financial statements. Full disclosure is aimed at improving the clarity, quality, and quantity of economic data disclosed by the accounting entity. It increases the relevance and reliability of accounting information. It facilitates the following:
 - Under GAAP alternative accounting procedures, circumstances are used such as depreciation methods, inventory methods, and methods of revenue recognition.
 - Companies occasionally make changes in accounting of reporting procedures, which affect the comparability of financial statements. This additional information mark be useful in making investment decisions.

The problems of disclosure can be resolved in the light of the objectives of financial reporting. All the countries do not have the same objectives. The solution to the problems of disclosure will not be the same for all countries. Basically, the following questions relating to disclosure need to be answered:

- 1. Who are the users of information, i.e., for whom is the information to be disclosed?
- 2. How much information should be disclosed ?
- 3. What should be disclosed?
- 4. How should it be disclosed?

b) Adequate disclosure :

Three concepts of disclosure generally proposed are adequate, fair and full disclosure'. Adequate disclosure means a minimum popunt of disclosure so that the financial statements are not misleading. Fair disclosure would imply that the accounting and other information is unbiased and impartial. It disclosure means the presentation of all relevant information. Hence the answer to this question that the users of financial statements should be provided with all the significant and relevant information keeping in view the objectives of financial reporting, while the information which is immaterial, irrelevant or insignificant should be omitted" to take the presentation meaningful and understand able".

In actual practice the companies are generally reluctant to disclose more information than what they are required to do under the law of the land or under professional pressure. The reasons they advance for this are generally not well-founded.

1.3

What should be disclosed, depends again upon the basic objectives of financial accounting and reporting. This is also related to the class of users. All that information which meets the needs of users in serving at the objectives, should be disclosed. This also depends upon the environments prevailing in a country. In underdeveloped economies, companies only disclose the balance sheet, profit and loss account, auditor's report, and a few schedules as appendices. In developed economies, where the economic environment is predominant, besides the above a president's letter, a five-year or ten-year summary highlighting additional financial information, such as turnover, capital investment, profit, dividend, important ratios and the company's view about its future plans and prospects are also published. Further, in countries where the social environment dominates besides the economics, information on value added, employees, customers, Government, foreign exchange, etc., is also given in annual financial reports. Hence, is difficult to prescribe the same report for all purposes, groups or countries.

c) Benefits of adequate disclosure :

The adequate disclosure in the financial reports facilities the following benefits to all categories of users

- 1. The traditional financial statements, namely, balance sheet, income statements the statement of retained earnings, statement of change in financial position, Chairman's speech, Director's report, auditor's report are usually louded in the published annual reports of all the listed companies. This is regarded as the minimum information required to be supplied to external users.
- Disclosure of accounting policies, including those on valuation of assets (current and fixed).
- Any changes in accounting policies on methods of valuation, methods of charging depreciation, determination of earnings etc.
- 4 Events occurring after the balance sheet date
- If certain assets are pledged as security to specific creditors, contingency liabilities and unrealized gains.
- Disclosure of segment- wise, accounting information (Product-wise and Geographic Division-wise).
- 7. Interim (Quarterly)-reports of the company's performance and financial position.
- 8. Supplementary information on accounting adjustments for changes in prices.
- 9. Accounting for foreign transactions.
- 10. Future prospects of the company.

The information should be presented in such a manner that it can be easily understood by a person of average knowledge and prudence. He should derive the same meaning from the information, as it is expected to convey, i.e., there should be presentational faithfulness. The methods of disclosure of information have evolved as a result of the changing environments and

consequential improvement in the ways of presentation effected by accountants on their own, on the recommendations of professional institutes, and as a result of Government measures. Still, there are no hard and fast motions of presentation. They differ from country to country, are even from a company to company in the same country. However, the financial statements Viz. Balance sheet, 'income statement, statement of retained earning and statement of changes in financial position are prepared and reported by all the listed companies.

8.9 Summary:

For any organization, most important financial statements are profit and logical account and balance sheet. The objectives of preparation of the financial statements are to provide reliable and accurate information about economic resources and their use in business organizations and to provide adequate disclosure for the benefit of the interested groups. Financial reports must be prepared in such a way that they must be brief; possess suitable Title and be purpose - oriented. There are different types of reports based on information and users. The financial reports perform a variety of functions. There are certain benefits and problems associated with adequate disclosure.

8.10 Key Words:

- a) Financial statements statements which provide the end result of the activities of business.
- b) Accounting reports statements in the form of schedules and statements.
- c) Operating reports they consist of control and information reports.
- d) Full disclosure all relevant information should be disclosed.

8.11 Self -Assessment Questions :

- 1. Define financial reporting what are the essentials of an ideal report?
- 2. What are the different types of financial reports?
- 3. Write an essay on the benefits of adequate disclosure.

8.12 Reference Books:

- P.K. Ghosh, GC Maheswari and R.N. Goyal "Studies in Accounting Theory" Wiley Eastern Ltd., New Delhi, 1998.
- Ashish K. Bhatta Charya, "Financial Accounting for Business Managers" Prentice Hall of India, New Delhi 2002.
- S.N. Maheswari "Principles of Management Accounting" Sultan chand & Sons, New Delhi, 1996.
- Dr. S.P. Gupta "Management Accounting" Sahitiya Bhavan, Agra, 2003.

Lesson - 9

RECENT TRENDS IN PUBLISHED ACCOUNTS

Objectives:

- The objectives of this unit are to help you to understand the recent trends in the published accounts and their objectives.
- · Present a format for preparation of fund flow statements
- Highlight the concept of value added statements and the advantages of such statements.

Structure:

- 9.1 Introduction
- 9.2 Objectives of published Accounts
- 9.3 Recent gends in published Accounts
 - 9.3.1 Summarised profit and loss account and balance sheet
 - 9.3.2 Highlights
 - 9.3.3 Funds flow statements
- 9.4 Value Added Statements
- 9.5 Assivantages of Value Added Statements
- 9.6 Summary
- 9.7 Key Words
- 9.8 Self Assessment Questions
- 9.9 Reference Books

9.1 Introduction:

Section 210, 216 and 217 of the Companies Act, 1956 make it compulsory for the board of directors to lay before the company's annual general meeting a copy of the profit and loss account and balance sheet together with the director's and auditor reports. All these documents are termed as the annual reports of the company and these are required to be prepared for every year as per the Companies Act. These documents are also popularly known as published accounts because all companies print and publish these annual reports. Corporate reporting is another more given to these published accounts, because they report to the public about the performance of the company.

9.2. Objectives of Published Accounts:

- To give information about the performance of the company during the year usually comparing it
 with that of the previous year. Information about the performance may relate to production,
 sales, profit before taxation and profit after making provision, for taxation.
- to provide information about the difficulties faced by the company during the year and steps by the company to over come the difficulties.
- 3. to present information about source and applications of funds during the year.
- 4. to provide information about the products of the company
- to give information about what the company owned and what the company owed at the end of the year.

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- to elicit information about the research and development undertaken during the year and the progress made thereof.
- to give information about capital projects undertaken by the company in the past but continuing or completing during the year and projects undertaken during the year.
- 8. to provide information about employees management relations during the year.
- to present the general information about the economic scene discharging the social responsibilities of the business.
- to give information about the role played by the company in discharging the social responsibilities of the business.
- 11. to give information about the future projects of the company.

9.3 Recent trends in published Accounts:

Accounting is the language employed to communicating financial information of a concern to various parties who are interested in such information. Communication of financial information and other information by published accounts serves its purpose only if it satisfies the needs of persons well-versed in accounting language on the one hand and laymen not familiar with accounting techniques on the other. Every effort was made under the companies Act, 1956 to provide the shareholders as much information as is possible. This has burdened the balance sheet with a mass of detailed information, which needs an expert to understand it.

Keeping in view the compliances of statutory forms as prescribed in the companies Act, now a days it is common practice to add to the profit and loss account and the balance sheet drawn in statutory forms, some voluntary supplementary information in a simple manner as would be easily understood by a layman. This voluntary information may include the following:

- a. Profit and loss a/c and balance sheet drawn in a summarized manner in a columnar form.
- b. Presentation of the 'highlights' of the information contained in the published accounts
- c. Preparing funds flow statements

10.3.1 Summarised Profit and Loss Account and Balance Sheet:

Progressive countries are discarding the preparation of traditional two sided balance sheet and profit and loss account and are following columnar forms of balance sheet and profit and loss account which are a simple way of presentation of information. Balance sheet in columnar form may be prepared in any of the following two ways, American or British Model.

In India, the columnar of balance sheet and profit and loss account is not as popular as it is in advanced countries. One of the reasons for slow adoption of this form is that schedule vi has prescribed the two sided ('T') from for the preparation of the final accounts. Even then many of the companies in India have adopted this form of presentation of final accounts. Efforts should be made to make this form popular because it speaks out the correlation of every item with the other items. Thus, this form conveys more meaning to the lawman.

9.3.2 Highlights:

Highlights are usually shown at the beginning of the annual report so that the reader may come across the important facts of the company, immediately he opens the reports. Highlights are gloop put under other headings like 'year at a glance' Highlights are given so that the reader may know the working of the company at a glance without loss of time. Highlights usually cover information about sales, production, profit before and after tax, amount spent on capital projects, working capital gross and net fixed assets, shareholders' equity and important landmarks of the year.

9.3.3. Funds flow statements :

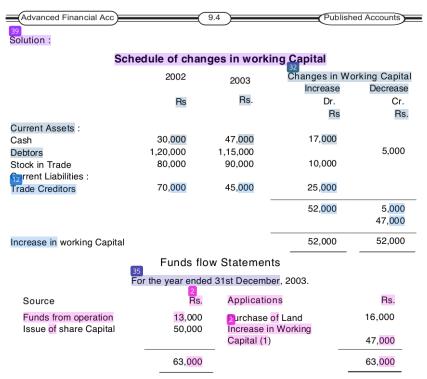
The funds flow statements is becoming popular day by day because it explains why in spite of huge profits earned by the company, it is facing difficulty in making the payment of creditors in time. It is a financial statement which every eveals the methods by which the business has been financed and how it has between the opening and closing balance sheet dates. This statements is known by various titles such as statement of sources and application of funds, statements of changes in working capital and statement of funds provided and applied.

Funds Flow. Statements:

Problem - 1:

From the following two balance sheets you are required to prepare the schedule of changes in working capital and funds flow statements.

Capital & Liabilities	2002 Rs.	20 ₃₂ 3 Rs.	Assets	2002 Rs.	2003 Rs.
Share Capital -1 . Trade Creditors Retained Earnings	2,00,000 70:000 10,000	2,50,000 70,000 23,000	Cash Debtors Stock in Trade Land	30,000 1,20,000 80,000 50,000	7,000 1,15,000 90,000 66,000
	2,80,000	3,18,000	-	2,80,000	3,18,000



9.4 Value Added Statements :

The value added is a measure of the increase on Value created by production. It can be defined as the amount by which the value of the out put from a process of production exceeds the value of the intermediate inputs consumed by that process. As intermediate inputs at this stage do not include the use of capital goods, the value added obtained as above is generally known as gross value added i.e., gross of preciation. This value added is essentially an out put measure which avoids double counting of the input values of goods and services produced by other producers over the same period and used for further production.

Value added measures the value of output from which all costs other than those of intermediate inputs (raw materials) will have to be recovered. A company makes its profile by working on material and in covering it as finished product by increasing its sales value. The difference between the sales value of the final product and the product acceptance cost of material and services is called the 'added value'. Thus if a manufacturer sells a product at Rs. 20/- per unit and its inaterial cost is Rs. 15/- the value added is as far as possible by reducing materials costs and

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increasing its sales value. Thus the in a company should be towards improving added value; rather than profit. The value added can be known with the help of the following illustration.

Example:

PQR Ltg, make two products A and B with same type of labour in a shop floor - unit sales price and cost are as follows :

		Product: "A" Rs.	Product "B" Rs.	
Selling Price		200-00		150-00
Direct Material	120-00		30-00	
Direct Labour	20-00		20-00	
Variable Overhead	10-00		10-00	
		150-00		80-00
Contribution		50-00		70-00
Fixed Over-head		30-00		20-00
Profit		20-00		50-00

The value added and profitability can be calculated as follows:

Product "A" Rs.	Product "B" Rs.
200-00	150-00
120-00	50-00
80-00	100-00
50	70
80 = 62.5%	100 = 70%
	Rs. 200-00 120-00 80-00

It is observed that contribution from Product "B" is higher (Rs 70/- to Rs. 50/-) and the added value is also higher (Rs. 100/- per unit compared to Rs. 80/-).

Value added refers to the addition of utility to Raw Materials and other in puts during the production process. If measures the value of 'production carried out by a production unit of as enterprise to the current flow of goods and services. The intermediate goods used in production are further processed and the product is sold as output. Gross value added = Value of output -Value of intermediate goods.

The difference between the gross value added and net value added is equal to depreciation or consumption of fixed capital.

Thus, net value added = Gross value added - Depreciation value added can be measured at market price of at factor cost. From value added at market price, by deducting indirect taxes paid

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by the firm to the government. (Sales Tax, Excise Duties etc.,) and by adding subsidies paid by the Govt., to the firm we get value added at factor cost.

Thus value added at factor cost = Value added at market price - indirect taxes + subsidies

9.5 Advantages:

as

Value added and its Advantages : The value added concept is useful in various areas such

1) To measure performance

If Divisional performance is measured in terms of added value, management's attention will be drawn more effectively toward measures of improving performance. Thus better revenue from existing sales, including sales volume from higher output, lower material cost from cheaper sources and better equipment broadly encompass the available avenues for increased wealth creation.

2) To levy Indirect Tax:

In most of the countries levy of indirect tax (Excise Duties) is based on 'value added' and is popularly called VAT (Value Added Tax). Here tax is levied in a firm on the basis of value addition. In India a modified value added tax MODVAT / CENVAT is applicable when the excise duty on inputs are deductible form the service duty payable on the final output.

3) To offer Incentive Schemes:

Value added incentives schemes are in vogue in recent years in many countries. By offering bonus payment to employees for value added achieved this should be an incentive for the work force to create more wealth.

9.6 Summary:

These have been many changes that took place in the put shed Accounts. The purpose of the published accounts is to project a detailed view about the financial performance of the organisation to both insiders and outsiders. The recent trends in the preparation of published accounts include presentation of funds flow statements, groups and charts etc., The value added statements have many advantages like measurement of divisional performance and to implement decisions related to incentive schemes.

9.7 Key words:

- a) Published Account Which consists of Profit and Loss account and balance sheet.
- b) High lights important aspects of financial perfermance
- Funds flow statements also called statements of sources and uses of funds which show the details relating to sources of income and its applications.
- d). Value added statements The statements which show changes in value added which are created by production.

9.8 Self-Assessment Questions:

- 1. What are published accounts and what are the objectives of published accounts ?
- 2. What is a funds flow statement illustrate it?
- 3. What is a value added statements. What are the advantages of it?

9.9 Reference Books:

- Ghosh, GC Maheswari and R.N. Goyal "Studies in Accounting they" Wiley Eastern Ltd., New Delhi, 1998.
- Ashish K. Bhatta Charya, "Financial Accounting for Business Managers" Prentice Hall of India, New Delhi 2002.
- S.N. Maheswari "Principles of Management Accounting", Sultan Chand & Sons, New Delhi, 1996.
- 4. Dr. S.P. Gupta "Management Accounting" Sahitiya Bhavan, Agra, 2003.

Lesson - 10

INFLATION ADJUSTED STATEMENTS

OBJECTIVES

The objectives of this unit are to help you to understand

- The need for inflation accounting;
- The effects of price level changes on financial accounting;
- · Methods of inflation accounting; and
- The features, advantages and disadvantages of inflation accounting

STRUCTURE

- 10.1 Introduction
- 10.2 Impact of Price level changes on financial statements
- 10.3 Methods of inflation accounting
- 10.4 Features of inflation accounting
- 10.5 Advantages of inflation accounting
- 10.6 Limitations of inflation accounting
- 10. Inflation Accounting some illustrations
- 10.8 Key Words
- 10.9 Self-Assessment Questions
- 10.10 Reference Books

10.1 Introduction:

The essential feature of the Historical Cost Accounting (HCA) is that it reflects assets and expenditure at their acts all original cost to the enterprise. During a period of stable prices; financial statements compared on the historical cost basis provide reliable measurement of the results of the operations of the company. However, accountants are increasingly realizing that during an inflationary situation, financial statements which do not reflect the effect of changing prices tend to present a totally misleading picture, the value of assets stated at their original cost would be much lower than their current replacement value. Consequently, provision depreciation on the original cost would be inadequate as a measure of current costs. Therefore, profits based on traditional accounting principle will not present the real picture of profitability, which will tend to be overstated.

The earliest attempt on the inflation accounting was made by H.H. Swaney when he published his work "Stabilized Accounting" in the year 1936. In U.K. The subject received interest with the publication of the paper "Rising price level in relation to the accounts" by "The institute of charactered Accounts in England and Wales".

In India, the institute of Citartered Accountants of India published in 1982 the Guidance Note on accounting for changing prices Guidance Notes are primarily designed to provide guidance to members and are not recommendatory in nature. The Guidance Note has been brought out by the institute in order to encourage the adoption of the accounting for changing prices and to suggest a methodology relevant in the prevailing ecoromic environment in India. This deals with three methods namely, CCA, CPP and periodic revaluation of fixed assets along with the adoption of LIFO formula, for inventory valuation.

Advanced Financial Acc 10.2

Adjusted Statements

However, it recommends CCA method as it is the most appropriate in the context of the economic environment in India

Thus, price level changes have become a common problem in any country. Financial statements or reports based on historical cost fail to reflect the effect of such changes in purchasing power on the financial position and profitability of the firm. Financial statements may be incorrectly interpreted unless adjustments are made to place the data on the current price level. In this way, the utility of the accounting records not taking care of price level changes is seriously impaired and makes a demand for adjusting financial accounting to know the real financial position and profitability of a concern.

10.2 Impact of Price Level Changes on Financial Statements :

The effects of inflation are more pronounced in the case of fixed assets. Under the historical accounting system, depreciation calculated on the basis of historical costs of old assets is usually lower than that of those calculated an current value or replacement value. This results in more profits, on paper which, if 'distributed in full, will lead to reduction of capital. Under the historical accounting system, depreciation is calculated on the original cost of the fixed assets with the result, that only an amount equivalent to the original costs of the fixed assets is available of its replacement when its life is over. But the replacement cost of the asset will be more than the original cost on account of inflation so that the replacement provision made by way of depreciation changes on the original cost will be insufficient for the purpose. This explains the need for changing depreciation on current value.

During the times of rising prices, the conventional system of accounts based on historical cost does not give -a true and fair view of the business enterprise as is required under the Companies Act. 1956. Historical accounting system does not make provision for the changing price level. There is another drawback in the historical costs whereas operating expenses and incomes are taken at current prices. The inflation accounting is intended to correct this problem.

Financial accounting based on historical costs had shown closing stock at cost or market price whichever is lower. Sales are shown at current purchasing power of the rupee while the stocks are shown at cost or market price whichever is lower. Thus, profit disclosed by financial accounting based on historical cost during inflation does not represent increase in wealth of the business in terms of current purchasing power because closing stocks are not shown at their current value. Similarly, during inflation, balance sheet also does not exhibit a true and fair view of the financial position of the me because closing stock is shown at its original cost which is lower than its current value. Further in case of price level changes, comparison of profitability of two plants set up at different dates becomes difficult.

From the above discussion, it is clear that conventional accounting based on historical cost has outlived its utility when prices are frequently. To overcome the drawbacks of prentional accounting, the adoption of accounting for changing prices is advocated. Accounting for changing prices also known as inflation accounting because changes in prices are usually on the upward side. Inflation accounting for changing prices is a system of accounting which regularly

records all items in financial statements as their current values. The system recognizes the fact that the purchasing power of money is decreasing day- by-day during inflation and finds out profit or loss or states the financial position of the business on the basis of the current prices prevailing in the economy.

10.3 Methods of inflation Accounting:

At present there are three major methods in inflation accounting.

- Current Purchasing Power (CPP) or General Purchasing Power (GPP) approach.
- Current Cost Accounting (CCA) approach.
- Hybrid Method i.e., a mixture of CPP and CCA methods.

Note: Hybrid approach is not covered in this chapter.

a) Current Purchasing Power Accounting:

In current Purchasing Power Accounting the historic cost accounting data are adjusted on the basis of any established and approved general price index at given date. In India wholesale price index of the Reserve Bank of India can be taken which shows the change in the value of the rupee in the past years. This method takes into consideration the changes in the value of the items as a results of the general price level, but it does not account for changes in the value of individual

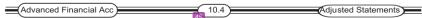
Steps: The Financial Statements under GPP approach shall be prepared based on the following,

i) Conversion Factor (CF): The GPP approach requires the restatement of historical figures at current purchasing prices. .This can be done by multiplying the historical figures by the conversion factor, as given below:

Illustration: A company purchased a machinery on 1-1-1999 for a sum of Rs. 80,000. The Retail price index on that day was 2.00. Restate the value of the machinery under GPP approach on 31-12-2003. When the price index was 250.

$$CF = \frac{250}{200} = \frac{5}{4}$$

ii) Mild-Period Conversion Factor (MPCF): In case of transactions occurring throughout a period, the historical values are rested as per Mid-Period conversion factor. Expenses are sales, purchases, salaries, etc, MPCF is calculated by taking the average price index (price index at the beginning and at the end of the period).



iii) Monetary and-Non-Monetary items: All the figures in the Balance sheet shall be distinguished into monetary arganon-monetary items, before converting them under GPP approach. Because, Monetary items (both Assets and pabilities) shall not be restated, because their values do not change because of inflation. Only the values of non-monetary assets and liabilities will change and hence restated under GPP approach.

Monetary items : cash, debtors, creditors, Bank loan, preference capital etc.

Non-Monetary items : Buildings Machinery, Inventor, equity capital etc.

iv) Calculation of Gain or Loss on the above mentioned monitory items. (For details, see illustrations No 4 and 5).

b) Current Cost Accounting

The current purchasing power method takes care of changes in the value of money but it does not account for changes in the value of the individual items. The value of the item may be increased on the price index where as the actual value of that item might have decreased. In this method, historic Values of items re not taken into account, rather current values of individual items are taken as the basis of preparing profit and loss account and balance sheet. Thus items are not adjusted as a result of the change in the general price level as they are adjusted in the CPP method.

10.4 Features of inflation Accounting

- Fixed assets are shown in the balance sheet at their current values and not at their depreciated original costs.
- 2 Stocks are shown in the balance sheet at their values to the business, i.e., at the value prevailing on the date of the balance sheet, These are not shown at cost or market price whichever is lower as is done in case of historical accounting.
- 3 To find out profit for the year, depreciation is calculated on the current value of the relevant fixed assets.
- 4 The difference between the current value and the depreciated original cost of fixed assets is transferred to Revaluation Reserve Account and is written on the liabilities side of the balance sheet. The relevation reserve is not available for distribution as dividend but is utilized for increased replacement cost of fixed assets and under provision of depreciation in the past years.
- The cost of stock consumed during the year is taken at current value of the stock on the date of consumption and not the purchase price of the stock consumed.
- 5. The effects of the loss or profit on monetary assess or owing liabilities is shown in a separate statement and is not given in the balance sheet. Monetary items are those whose amount are fixed by contract or otherwise regardess of changes in the general price level. Monetary items can be debtors, creditors, cash and loans. The value of these items is fixed as we are not giving to get more from debtors or pay more to the creditors regardless of general increase in the price level.

Of the two approaches discussed, Current Cost Accounting is a better approach, under this approach all assets and liabilities are shown at their realistic value and operative profit is arrived at after charging the value to the business of company's assets consumed during the period. However, C.C.A fails to reflect the general increase in prices and is subjective in its approach. The system offers some discretion to the directors in the valuation of assets.

10.5 Advantages of Inflation Accounting:

Following are the advantages of inflation Accounting:

- Historical Accounting tends to inflate profits because less depreciation is charged. Inflated
 profits if distributed as dividend will lend to erosion of capital. Accounting adjusted to price
 level changes tends to correct this malady by charging depreciation on current values of
 assets. In this way, capital is kept intact which is essential in a limited liability business.
- Balance sheet exhibits a true and fair view of the financial position of a firm because assets are shown at their current values.
- For managerial decisions, the anticipated and actual profit must be expressed in rupees of the same purchasing power. Inflation. Accounting does this by matching the cost and revenue at current Values.
- Inflation accounting helps in making better comparison of the profitability of the two plants set up at different dates because current values and not historical costs of the plants will be taken for comparison purposes.
- Financial ratios calculated on the basis of balance sheets and profits and loss account adjusted to current values would provide more meaningful information as compared to the ratios based on the historical costs.
- A rate of return on capital employed adjusted to the current price index is more useful in the valuation of business by its, creditors and management.
- 7. Employees, shareholders and public are not misled because inflation accounting shows current profit based on current prices. Historical accounting shows exaggerated profits by depending on historical values which may be very low. Exaggerated profits may induce employees and share holders to make a claim for higher wages and dividends.

10.6 Limitations of inflation Accounting:

- Charging depreciation on current values of fixed assets is not acceptable to income tax authorities. So no useful purpose will be served by following accounting for changing prices far as income tax law in concerned.
- Too many calculations are involved for adjusting accounting to changing prices and make financial statements complicated.
- Charging depreciation is a process of distribution of anything in excess over the effective life of an asset is against the concept of depreciation.
- Adjusting accounts to changing price is a never ending process because prices go on changing every day.

- 5. Price level accounting is not free from prejudice. Assets are recovered at values which will be according to the whims of an individual or group of individuals. It would enable people to dress up their balance sheets according to their interests. On the other hand, actual cost recorded in historical accounting is objective evidence and is free from prejudice.
- 6. The profit disclosed by system of price level accounting by taking items at current values is not a realistic profit and, therefore, to that extent, it should not be distributed as dividend. Distribution of unrealized profit as dividend amounts to erosion of capital which is not desirable.

10.7 Inflation Accounting Some Illustrations:

1) From the information given below calculate the net monetary gain or loss for the accounting year 30th June, 1998. (March 200).

Net monetary assets as on 1-7-1997 Rs. 1,000
Net monetary assets as on 30-6-1998 Rs. 7,000

Transactions for the year are as follows:

Cash Sales - 8,000; Credit Sales - 10,000; Credit Purchases - 7,000; Wages incurred - 2,000; Operating expenses - 1,000; Interest paid on 30-6-98 - 2,000.

Solution: Calculation of Monetary Gain or Loss as on 30-6-1998.

Particulars	HCA		CF	CPP
Net Monetary Assets (1-7-97) Add : Incomes during the period	1,000 :	х	150 / 100	1,500
Sales (Cash +.Credit)	18,000	x	150/125	21,600
	19,000	_		23,100
Less : Expenses during the peri-	od :			
Purchases (Cash + Credit)	7,000	х	150/125	8,400
Wages incurred	2,000	х	156/125	2,400
Operting expenses	1,000	х	150/125	1,200
Interest Paid	2,000 •	х	150/150	2,000
	12,000			14,000
Net Monetary assets (30-6-98)	7,000	_		9,100

Net Monetary Gain / Loss.

Loss = 2,100

Acharya Nagarjuna University	10.7	Centre for Distance	e Education
Less : Payment to creditors.	12,000	110/108	12,222
Cash Purchases	2,000	110/108	2,037
Payment of expenses	2,000	110/110	2,000
	16,000		16,259
Closing Balance	7,500		8,674

Net Monetary Gain / Loss Loss = 1,174.

2. A Company had the following/ transactions at the given dates and price indices for the first quarter of 1996.

Particulars	HCA	Price
Index	Value	
Opening balance (jan. 1)	8,000	100
Cash Sales (Feb. 1)	15,000	104
Payment to creditors (March. 1st)	10,000	106
Cash Purchases (March, 1st)	2,000	108
Payment of expenses (March 1st)	4,000	110
Closing balance	7,000	110
Calculate Monetary Gain	/ Loss.	

Solution: Statement of Monetary Gain / Loss under CPPA

Particulars	HCA		CF	CPP Value
Opening Balance	8,000	x	110/100	8,800
Add • : Cash Sales	15,000	x	110/104	15,865
	23,000	-		24,665
Less : Payment to Creditors	10,000	x	110/106	10,377
Cash Purchases	2,00.0	х	110/108	2,037
Payment of exprenses	4,000	x	110/110	4,000
	16,000	-		16,414
Closing balance Net Monetary Gain / Loss	7,000			8,251

Net Monetary Gain / Loss Loss = 1,251

^{3.} Compute the net monetary result of apex ltd., as on 31-12-95 from the data given below (March, 2002)

Advanced Fil	nancial Acc		$\overline{}$	0.8		Adjus	sted Sta	tements
	Portioulara		1 1 05			21 10 05		
	Particulars Cash		1-1-95 20.000			31-12-95		
	Debtors		50,000			25,000 60,000		
	Creditors		70,000			80,000		
	Loan		30,000			30,000		
			,			,		
Retail Price Ind	ex numbers ar	re as unde		anuary, 1st		200		
				ıg., for the y		210		
			De	ecember 31	st	230		
Solution : 0	Converted v	value of	Monet	ary Asset	s			
As on 1-1-95 (Cash -	- + or)	70,000 A	As on 1-1	-95 =	70,000x	230 /	200	80,500
As on 31-12-95	-	85,000 A	Additions	=	15,000x	230 /	210	16,429
Additions durin	ng - 15,000							
The yea	r			Less : HCA				96,929
				Ass	sets as on	31-12-95		85,000
					Loss			11,929
Monetary Lia	abilities Cor	verted '	Values					
-	abilities Cor							1,15,000
As on 1-	-1-95 - 1,00,00							1,15,000
As on 1- (Crs + L	-1-95 - 1,00,00 oan)	00 As on 1	-1-95 = 7	70,000 x 23(0/200	10		, -,
As on 1- (Crs + Lo As on 31-	-1-95 - 1,00,00 oan) -12-95 - 1,10,0	00 As on 1 00	-1-95 = 7	70,000 x 230	0/200 230/2 ⁻	10		10,952
As on 1- (Crs + Lo As on 31-	-1-95 - 1,00,00 oan)	00 As on 1 00	-1-95 = 7	70,000 x 230 ns 1,00,000 10,000	0/200 230/2 ⁻			, -,
As on 1- (Crs + Lo As on 31-	-1-95 - 1,00,00 oan) -12-95 - 1,10,0	00 As on 1 00	-1-95 = 7	70,000 x 230 ns 1,00,000 10,000	0/200 230/2 ⁻ HCA Valu	ue of clg.		10,952 1,25,952
As on 1- (Crs + Lo As on 31-	-1-95 - 1,00,00 oan) -12-95 - 1,10,0	00 As on 1 00	-1-95 = 7	70,000 x 230 ns 1,00,000 10,000	0/200 230/2 ⁻ HCA Valu	ue of clg. es as on 3		10,952 1,25,952 5 1,10,000
As on 1- (Crs + L As on 31- Addition	-1-95 - 1,00,00 oan) .12-95 - 1,10,0 s during years	00 As on 1	-1-95 = 7	70,000 x 236 as 1,00,000 10,000 Less :	0/200 230/2 HCA Valu Liabilitie	ue of clg. es as on 3	1-12-9 Gain	10,952 1,25,952 5 1,10,000 15,952
As on 1- (Crs + L As on 31- Addition	-1-95 - 1,00,00 oan) -12-95 - 1,10,0	00 As on 1	-1-95 = 7	70,000 x 236 ss 1,00,000 10,000 Less :	0/200 230/2 HCA Valu Liabilitie om Loss	ue of clg. es as on 3 (10,952 1,25,952 5 1,10,000 15,952 15,952
As on 1- (Crs + L As on 31- Addition	-1-95 - 1,00,00 oan) .12-95 - 1,10,0 s during years	00 As on 1	-1-95 = 7	70,000 x 236 ss 1,00,000 10,000 Less : Gain fr Loss	0/200 230/2 HCA Valu Liabilitie	ue of clg. es as on 3 (10,952 1,25,952 15,10,000 15,952 15,952 11,929
As on 1- (Crs + Li As on 31- Addition Net Mor	-1-95 - 1,00,00 oan) -12-95 - 1,10,00 s during years netary Gain / Lo	00 As on 1 00 oss	-1-95 = 7 Addition	70,000 x 230 is 1,00,000 10,000 Less : Gain fr Loss Gain	230/2* HCA Valu Liabilitio om Loss from Gair	ue of clg. es as on 3 (Gain	10,952 1,25,952 5 1,10,000 15,952 15,952 11,929 (+) 4,023
(Crs + L As on 31- Addition	-1-95 - 1,00,00 oan) -12-95 - 1,10,00 s during years netary Gain / Lo	00 As on 1 00 oss	-1-95 = 7 Addition	70,000 x 230 is 1,00,000 10,000 Less : Gain fr Loss Gain	230/2* HCA Valu Liabilitio om Loss from Gair	ue of clg. es as on 3 (Gain	10,952 1,25,952 5 1,10,000 15,952 15,952 11,929 (+) 4,023
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As on 1- (Crs + Li As on 31- Addition Net Mor 4. The informat general price le	-1-95 - 1,00,00 oan) -12-95 - 1,10,0 s during years netary Gain / Lo tion given belo vel Gain / Loss	00 As on 1 00 oss	-1-95 = 7 Addition	70,000 x 236 s 1,00,000 10,000 Less: Gain fr Loss Gain etary account	230/2* HCA Valu Liabilitio om Loss from Gain	ue of clg. es as on 3 () yanath Co.	Gain	10,952 1,25,952 5 1,10,000 15,952 15,952 11,929 (+) 4,023
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As on 1- (Crs + Li As on 31- Addition Net Mor 4. The informat general price leter Particulation	-1-95 - 1,00,00 oan) -12-95 - 1,10,0 s during years netary Gain / Lo tion given belo vel Gain / Loss ars	00 As on 1 00 oss	-1-95 = 7 Addition	70,000 x 230 ss 1,00,000 10,000 Less: Gain fr Loss Gain etary accounts on	230/2* HCA Valu Liabilitio om Loss from Gair	ue of clg. es as on 3 () yanath Co. As on 31-12-95	Gain	10,952 1,25,952 5 1,10,000 15,952 15,952 11,929 (+) 4,023
As on 1- (Crs + Li As on 31- Addition Net Mor 4. The informat general price le Particula Moneta Monetar	-1-95 - 1,00,00 oan) -12-95 - 1,10,0 s during years netary Gain / Lo tion given belo vel Gain / Loss ars	00 As on 1 00 oss	-1-95 = 7 Addition	70,000 x 230 15 1,00,000 10,000 Less: Gain fr Loss Gain etary accounts on 1-1-95 80,000	230/2* HCA Valu Liabilitii om Loss from Gain	ue of clg. es as on 3 (yanath Co. As on 31-12-95	Gain	10,952 1,25,952 5 1,10,000 15,952 15,952 11,929 (+) 4,023

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Monetary Assets Rs. Converted values of monetary Assets As on 1-1-95 - 80,000 As on 1-1-95 -80,000 x 300/200 1,20,000 As on 31-12-95 - 1,00,000 Additions -20,000 x 300/240 25,000 Additions during 20,000 1,45,000 Less: HCA Value of Assets as on The year 1,00,000 Loss 45,000 Monetary Liabilities Converted values As on 1-1-95 -1,00,000 As on 1-1-95 - 1,00,000 x 300/200 1,20,000 As on 31-12-95 -1,00,000 Additions Less: HCA Value closing liabilities -1,00,000 as on 31-12-95 Gain 50,000 Net monetary Gain .or Loss Loss from Gain 45,000 Gain from Loss 50,000 Gain 5,000

5. From the following Particulars calculate Net Monetary Gain or Loss

Rs.	Rs
ms.	ns.

g., Cash balance	24,000	Cr. Purchase during the year	500
Cash / sales during the year	10,000	Operating Expenses	4,000
Cr. Sales during the year	5,000	Interest paid on 31st Dec.	5,000
Cash Purchases	1.500	Dividend paid on 31st Dec.	5.000

The following are the Price Indices

Index on the January, 1st 100
Index on the Decertiber, 31st - 120
Average Index 110.

Solution : Calculating of Monetary Gain or Loss

6 Particulars	HCA		CF	СРР
Opening Cash Balance	8,000	х	120/100	9,600
Add : Sales (Cash + Credit)	15,000	х	120/110	16,364
	23,000			25,964
Less Purchases	2,000	х	120/110	2,182
Operating expenses	4,000	х	120/110	4,364
Interest Paid	5,000	x	120/120	5,000
Dividends	5,000	х	120/120	5,000
	16,000			16,546
Monetary Gain or Loss Loss 2,418	7,000			9,418

Advanced Financial Acc

10.10

Adjusted Statements

6. A Company held shares in XYZ Co., which it bought for Rs. 21,000/- in 1979 when the general price Index was 105. At the end of 1994 the market price of the shares was Rs. 18,000/- and the index was 125. At the end of 1995 the market price was Rs. 20,000/- and the Index was 130.

Compare required to calculate

- CPP Value of the shares at the end of 1994 & 1995.
- 2. Under CPP Accounting what Gain or Loss would be shown in respect of the shares.
- 3. What in fact was the Gain or Loss in purchasing power in respect of the shares.

Solution: (1) Calculation of CPP Value of Shares

 Cost Price Shares in 1979
 Rs. 21,000

 Price Index in 1979
 Rs. 105

 Price Index in 1994
 Rs. 125

 Price Index in 1995
 Rs. 130

CPP Value of shares in 1994- 21,000.x 125/105 = 25,000 CPP Value of shares in 1995- 21,000x 130/105 = 26,000

2) Calculation of Gain or Loss

Cost Price of shares in 1979 21,000

CPP Value in 1974 -25,000

CPP Value 1995 - 26,000

Loss in 94 = 25,000-21,000 = 4,000Loss in 95 = 26,000 -21,000 = 5,000

3) Actual Gain / Loss on the basis of Market Price

CPP Values of shares in 1994	25,000
Market Price in 1994	18,000
Actual Loss	7,000
CPP Value of Shares in 1995	26,000
Market Price in 1995	20,000
Actual Loss	6,000

7) H company held shares in X Co., which it bought for 10,000/- in 1991, when the general price Index was 110. At the end of 1994, the market price of the shares was Rs. 8,000/- and the Index was 132. At the end of the year 1995, the market price of the shares was Rs. 9,000/- and the index was 145.2.

You are required to calculate the following :

- 1. Calculate the CPP Value of shares at the end of years 1994 & 1995.
- 2. What inject was the Gain or loss of the shares during 1994 & '95.

1) Calculate of CPP Value of Shares

Cost Price of shares in 1991 - Rs. 10,000

Price Index in 1991 - 110

Price Index'in 1994 - 132, Price Index in 1995 - 145.2

CPP Value of shares in 1994 - $10,000 \times 132 / 110 = 12,000 \text{ CPP}$ Value of shares in 1995 - $10,000 \times 142.5 / 110 = 13,200$

2. Calculate of Gain or Loss:

Cost of shares in 1991 - 10,000

Actual Gain or loss on the basis of Market Price

 CPP Value of Shaes in '94 - 12,000
 CPP Value in 1995 - 13,200

 Market Price in 1994 - 8,000
 Market Price in 1995 - 9,000

 Actual Loss 4,000
 Actual Loss 4,200

Conversion of Income Statement : Some Illustrations

Arjun Ltd., furnishes the following Income statement for the year ending 31-12-1995, prepared on the basis of conventional accounting. Your are required to adjust the same for price level changes under CPP method.

Particulars 26	Rs	Amout in Rs.
Sales		90,000
Less: Cost of Goods Sold		
Opening Stock	8,000	
(+) Purchases	60,000	
(-) Closing Stock	6,000	_
	62,000	
(+) Wages and salaries	6,000	
Other expenses	4,500	
Depreciation on building	700	
Interest	300	
		73,500
Net Income		16,500
Dividends		4,000
Retained Earnings		12,500

Index Numbers:

January, 1st - 100 December, 31st - 200 Average Index - 150

Interest & Dividends are paid on Dec., 31st Building was purchased when Index was 50.

Advanced Financial Acc	(10.12)	Adjusted Statements

Solution : Conversion of the Income Statement

Particulars	HCA		CF	CPP Value
Sales	90,000	×	200 / 150	1,20,000
Less: Cost of goods sold				
Opening Stock	8,000	X	200 / 100	16,000
(+) Purchases	60,000	x	200 / 150	80,000
	68,000	_		96,000
(-) Closing Stock	6,000	х	200 / 150	8,000
	62,000	_		88,000
Add: Wages & Salaries	6,000 '	x	200 / 150	8,000
Other expenses	4,500	x	200 / 150	6,000
Depreciation	700	X	200 / 150	2,800
Interest	300	х	200 / 200	300
	73,500			1,05,100
	16,500			14,900
Less: Dividends	4,000			4,000
Retained earnings	12,500			10,900

9) Fair & Lovely Corporation has the following particulars relating the financial year 1997 in respect of its stock figures.

Opening Stock on 1-4-97 - 8,000

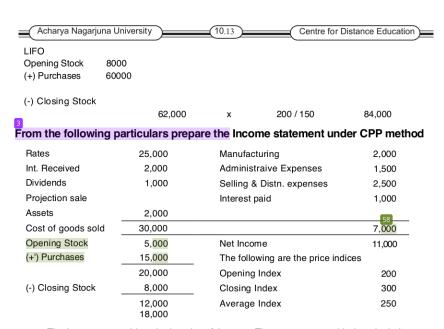
Purchases from 1-4-97 to 31-3-1998 - 60,000

Closing stock on 31-3-98 - 6,000

The corporation followed both FIFO & LIFO for issue of its stock. The following are the price indices relating to the firm cial year 1997 - 98. Opening Ihdex - 100, Avg. Index - 150; Closing Inex - 200. Calculate cost of sales and closing inventory under CPP method.

Solution

Particulars	HCA		CF	CPP Value
Opening Stock	8,000	х	200 / 100	16,000
(+) Purchases	60,000	X	200 / 150	80,000
	68,000			96,000
(-) Closing Stock	6,000	x	200 / 150	8,000
	62,000			88,000
b) Closing Stock	6,000	x	200 / 150	8,000



The Interest was paid on the last day of the year. The assets were sold when the index was 125.

Solution: Conversion of Income Statement

Particulars	HCA		CF	CPP
Sales	25,000	x	300 / 250	30,000
Interest received	2,000	x	300 / 250	2,400
Dividends	1,000	x	300 / 250	1,200
Profit on sale of assets	2,000	х	300 / 125	4,800
3	30,000			38,400
Less : Cost of goods sold				
Opening Stock	5,000	х	300 / 200 =	7,500
(+) Purchases	15,000	x	300 / 2 0 =	18,000
	20,000	-		25,500
(-) Closing Stock.	8,000	х	300 / 250 =	9,600
	12,000			15,900
Add: Manufacturing exp.	2,000	х	300 / 250 =	2,400

Net income	11,000			14,300
				24,100
	19,000			24,100
Interest paid	1,000	x	300 / 300 =	1,000
S & D Expenses	2,500	x	300 / 250 ='	3,000
Administrative exp.	1,500	x	300 / 250 =	1,800

11) From the following, Income statement of ABC Corporation prepare converted Income Statement under CPP method.

· Particulars	n	nountA nount Rs.	Other Expenses are as fo	llows
Net Salaries		95,000	Salesman Salaries	12,000
Less: Cost of goods sold			Advertisment	3,000
Opening Stock	15,000		Delivery van exp.,5,000	
(+) Purchases	35,000		Depreciation on Pron.	3,000
(+) Carriage inwards	5,000		Depre. on furniture2,500	
			Depre., on office equipment	2,000
	55,000			
(-) Closing Stock	10,000	45,000		27,500
.,			Net Income	
GP-		50,000		22,500
			Less : Dividends	5,000
			Taxes	2,000
				7,000
			Retained earnings	15,500
The relevant Price indices are a	s following	-	Opening Index	100
			Closing Index	200
			Average Index	150

The indicies of P & M - 50; furniture - 75, Office equipment - 90, Dividends, Taxes are Paid on the last day of the year.

Solution : Conversion of Income Statement

Particulars	FICA		CF	CPP
Less: Cost of goods sold	95,000	x	200 / 150	1,26,667
Opening Stock	15,000	Х	200 / 100	30,000
(+) Purchases	35,000	Х	200 / 150	46,667
Carriage inwards	5,000	Х	200 / 150	6,667
	55,000			83,334

Acharya Nagarjuna University	1.3		Centre f	or Distance Education	n)=
(-) Closing Stock	10,000	2 X	200 / 150	13,334	
(-) Glosing Glock	45,000	_	2007.100	70,000	_
Other Expenses	50,000	-		56,667	_
Sales man Salaries	12,000	X	200 / 150	16,000	
Advertisement exp.,	3,000	X	200 / 150	4,000	
Delivery van expenses	5,00.0	X	200 / 150	6,667	
Depreciation:					
Plant & Machinery	12,000	X	200 / 50	12,000	
Furniture	2,500	X	200 / 75	6,667	
Office Equipment	2,000	X	200 / 90	4,444	
	27,500	-		49,778	_
Net income	22,500	_		6,889	
Less: Dividends	5,000	X	200 / 200	5,000	
Taxes	2,000	X	200 / 200	2,000	_
Retained Earnings	15,500			- 111	

12) Income Statement of M/s Sundaram Traders is given below.

Particulars	Amount Rs.	Particulars	Rs.
Sales	10,00,000	Operating Expenses	4,80,000
Cost of Sales		Selling Expenses	50,000
Opening Stock	1,00,000	General Expenses	25,000
(+) Purchses	5,00,000	Depreciation	50,000
	6,00,000		1,25,000
(-) Closing Stock	80,000		3 55,000
	5,20,000	Net income before taxes &	
Gross Profit	4,80,000	Dividends	3,55,000

The depreciable assets were acquired when the general price index was. The indices are: At the beginning of the year - 150; Index - 180 At the end of the year - 200. Compute the Income statement under CPP terms, assuming that the general price level gain was 10,000.

Solution : Preparation of Converted Income Statement

Particulars	HCA		CF	CPP Value
<mark>§</mark> ales	10,00,000	x	200 / 180	11,11,111
Less: Cost of goods sold:				
Opening Stock	1,00,000	х	200 / 150	1,33,333
(+) Purchases	5,00,000	х	200 /180	5,55,555
	6,00,000			6,88,888
(-) Closing Stock	80,000	Х	200 / 180	88,889
	5,20,000	-		5,99,999

Advanced Financial Acc	10.1	4	Adj	usted Statements	
Gross Profit	4, 80, 000			5,11,112	
Less: Selling Expenses	50,000	х	200 / 180	55,555	
General Expenses	25,000	х	200 / 180	27,778	
Depreciation	50,000	Х	200 / 125	80,000	
	1,25,000			1,63,000	
Net Profit	3,55,000			3,47,779	
Add : Monetary Gain				10,000	
	3,55,000			3,57,779	

Problem on Final Accounts:

15) The B/S of Universal Traders as on 31.3.1995 and its P & L A/c for the year ended 31-3-1996 are as under (March 97)

Balance Sheet as on 31-3-1995

Liabilities	Rs.	Assets	Rs.
Share Capital	4,00,000	Plant &Machinery	6,00,000
14% Debentures	2,40,000	Stock	96,000
Sundry Creditors	1,44,000	Debtors	48,000
		Cash	40,000
	7,84,000		7,84,000

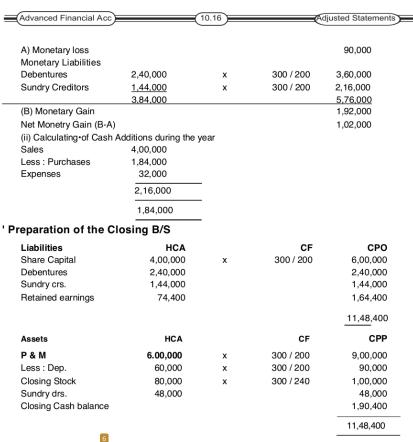
Profit and Loss A/c for the year ended 31-3-1996

Dr.		C

Particulars	Amount in Rs.	Barticulars	Amount in Rs.
To Opening Stock	96,000	By Sales	4,00,000
Purchases	1,84,000	By Clg., Stock	80,000
To Gross Profit C/d	2,00,000		
	4,80,000	-	4,80,000
To Expenses	32,000	By Gross Prifit b/d	2,00,000
To Int., on debentures	33,600		
To Depreciation	60,000		
To Net Profit	74,400		
	2,00,000	-	2,00,000

- The following relevant information is furnished. There is no change in the debtors and creditors during the year.
- FIFO method is followed.
- 3. The Price indices are as under 31-3-1995 200; 31-3-96 300. Average for the year - 240

Acharya Nagarjuna University		10.15	Centre for	Distance Education
3			6	
You are required to pre	pare final acco	unts after a	adjustments for pri	ice level changes
CPP method.				
Solution : Preparation of	Converted I	ncome St	atement	
Particulars				
Values	HCA		CF	CPP
Sales 11	4,00,000		300 /240	5,00,000
Less: Cost of Goods sold	00.000		000 / 000	4.44.000
Opening Stock (+) Purchases	96,000 1,84,000		300 / 200	1,44,000
(+) Fulcilases	1,64,000	_	300 / 240	2,30,000
58	2,80,000			3,74,000
(-) Closing Stock	80,000	х	300 / 240	1,00,000
	2,00,000			2,74,000
Gross Profit	2,00,000	_		2,26,000
Less : Expenses	32,000	х	300 / 240	40,000
Depreciation	60,000	X	300 / 200	90,000
Int., on debentures	33,600	x	300 / 300	33,600
	1,25,600	_		1,63,600
Net Profit	74,400	_		62,400
Add: Monetary Gain / Loss	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1,02,000
(i) Monetary Gain				
Total Retained earnings	3174,400			1,64,000
(ii) Closing Cash Balance	e Rs.			
Opening Cash Balance	40,000			
Add : Addition during the year	1,84,000			
year		_		
	2,24,000			
Less Interest on debentures	33,600	_		
	1,90,400			
Statement of Monetary G	ain / Loss :			
Particulars	HCA		CF	CPP Value
Monetary Assets				
Sundry Debtors	48,000	X	300 / 200	72,000
Cash balance	40,000	X	300 / 200	60,000
Cash Additions during the				
Years (w.Notes ii)	1.84,000	Х	300 / 240	2,30,000
	2,72,000	_		3,62,000
		_		



14. (March 1998) A Company had the following .monetary items on Jane= 1997.

 Debtors
 41,000

 Bills Receivable
 10,000

 Cash
 20,000

Less B/P :
Creditors

Net Monetary Assets

8 10,000 25,000

35,000 36,000

The transactions effecting the monetary items during the year are :

- 1) Sales of 1,40,000 made evenly throughout the year
- 2) Purchases of goods of 1,05,000 made every throughout the year.
- 3) Operating Expenses of 35,000 were incurred evenly throughout the year.

Centre for Distance Education

- One machine was sold Rs. 18,000/- on July, 1st 1997.
- One machine Price index was as follows. On January, 1st 360, Jan 1 30 July 1 360, Aug., for the year - 350, July 1st Average - 350; Dec. 31-400; Dec., 31st - 400.

You are required to compute the General Purchasing Power Gain or loss for the year stated in terms of the current year and rupee.

Solution: Statement of the Monetary Gain or Loss.

Particulars	HCA		CF		C PP Value
Net Monetary assets	36,000	x	400 /	300	48,000
Add Increase in Monetar	v items :				
Sales	1,40,000	X	400 /	350	1,60,000
Sale of Machinery	18,000	x	400 /	360	20,000
	1,58,000				1,80,000
	1,94,000				2,28,000
Monetary Loss					(-) 34,000
Less: Decrease in me	onetary items.				
Purchase of goods	1,05,000	x	400 /	350	1,20,000
Operating expenses	35,000	x	400 /	350	40,000
Purchase of Machinery	2,000	X	400 /	400	25,000
	1,65,000	_			1,85,000
Monetary Gain		_			(+) 20,000
Net Monetary Gain / Loss					(+) 20,000

10.9 Key Words:

- 1. Historical Cost Accounting
- 2. Inflation adjested statements
- 3. GPP
- 4. CCA

the accounting statements which are prepared on the basis 21 past transactions.

Accounting statements which are prepared on the basis of changesin price levels.

Accounting statements are adjusted on the basis of established price index.

Which takes .care of changes in the value of

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Lesson-11

HUMAN RESOURCE ACCOUNTING AND SOCIAL BALANCE SHEET

OBJECTIVES

After having studie sis unit you should be able to:
understand the Concept of Human Resource Accounting

- appreciate the need for and importance of Human Resource Accounting
- have an understanding of the Methods of Valuation of Human Resources
- have an insight into the concept of Social Accounting and dimensions of Social Balance

STRUCTURE

- 11.1. Introduction
- 11.2. Concept and Definitions
- 11.3. Nature and Importance of Human Resource Accounting
- 11.4. Objectives of Human Resources Accounting
- 12.5. Methods of HR Valuation
- 11.6. MR Valuation Recording and Disclosure
- 11.7. Objectives to MRA
- 11.8. Social Accounting A focus
- 11.9. Social Balance Sheet A Model
- 11.10. Summary
- 11.11. Self Assessment Questions
- 11.12. Key words
- 11.13. Further Readings

11.1. INTRODUCTION

Capital and natural resources of a country are passive factors of production; human beings are the active agents who accumulate capital, exploit the natural resources, build social, economic and political organizations and carry forward national development. Human resources are the energies, skills, talents and knowledge of people which are, or which potentially can be, applied to the production of goods or the rendering of useful services. As such, investment in human resources refers to all forms of investments directed to raise the knowledge, skills and aptitudes of the organization's workforce. The development of human resources constitutes an essential perquisite and a key factor in sustained and accelerated economic growth. Social Balance Sheet

Human and Non-human elements are equally important in the contribution towards the objectives of an overall organizational system. It is a widely accepted fact that success of any organization or business or otherwise, to a great extent, depends upon the quality, calibre and character of the people working in it.

11.2

An enterprise with incompetent people will fail sooner or later but on the other hand competent persons can take the unit ahead even out of adverse environment. Human Resource Accounting, is not fully developed; but in its infancy and still in the process of development. The concept of Human Resource Accounting (HRA) is not an old concept but of relatively new origin and emerged in the late 1950s. It's origin was a logical derivation of the recognition of a fact by Rensis Likert, (1967) Social Psychologist, that human elements in the organization are the assets to the organization in the same sense as the physical assets to the organization.

11.2. CONCEPT AND DEFINITIONS

In simple words, human resources accounting is the art of, valuing, recording and presenting systematically the worth of human resources in the books of accounts of an organization. This definition brings out three important aspects of human resource accounting:

- (i). Valuation of human resources
- (ii). Recording the valuation in the books of accounts.
- (iii). Disclosure of the information in the financial statements of the

According to Eric Flamholts Human Resource Accounting is Accounting for people as organizational resources. It is the measurement of the cost and value of people for the organization.

Mr. Woodruff Jr. Vice President of R.G. Barry Corporation defines it as follows: "Human resource accounting is an attempt to identify and report investments made in human resources of an organization that are presently not accounted for in conventional accounting practice. Basically it is an information system that tells the management what changes over time are occurring to the human resources of the business."

According to Venkataratnam C.S, and Srivastava, Human Resource Accounting (HRA) may be referred to aS a process of identifying, measuring and communicating information about human resources in financial terms to aid HRP and control.

The American Accounting Society Committee on human resource accounting defines it as "Human resource accounting is the process of identifying and measuring data about human resources and communicating this information to interested parties."

This definition gives emphasis on identity and measurement of human resources and giving this information to those who are interested in it.

11.3 NATURE AND IMPORTANCE OF HUMAN RESOURCE ACCOUNTING

Human Resource Accounting is the art of, valuing, recording and presenting systematically the worth of human resources in the books of accounts of an organization. The following points reveal the nature of HRA.

- a) HRA is a subsystem of MIS and as such it must be integrated with the conventional accounting system and also it must be in a conflicting position with regard to the other sub systems of MIS.
- b) HRA is not an isolated technique and as such it is an open system on which many factors and variables have their effect. Therefore, an organization must have a team consisting of, for instance, accountants, managers, behavioural scientists etc, for its development within the organization.
- c) The success of HRA in an organization depends upon, among other factors, the method of valuation of human-assets selected.

The primary purpose of HRA is to facilitate the management of people as organizational resource. Thus it might to be inappropriate to refer to it also as 'Human Resource Management Accounting', i.f.s the application of accounting to the management of human resources. The variables in human behaviour like group loyalty, skill, motivation and capacity for effective interaction, communication and decision making are the true indicators of organisational health. Information about human asset for planning and control is sepsential in the same way as data regarding other resources are needed for proportation in the financial statements. It is through a system of HRA that information regarding proposition, development, maintenance and utilization of human set would be available. If the value of human and physical assets are shown together in the balance sheet, a more realistic assessment of the firm can be presented before the investors, financiers, creditors, government and the general public.

Human Resource Accounting helps in different ways.

- The Human Resource Accounting helps individual employees in improving their performance and bargaining power. It makes each of them conscious of the contribution that he is making towards the betterment of the firm vis-à-vis the expenditure incurred by the firm on him.
 It helps the management in the decision-making process relating to the Employment, location
- 2. It helps the management in the decision-making process relating to the Employment, location and utilization to human resources, transfers, promotions, trading and retrenchment of human resources and planning of physical assets vis-à-vis human resources.
- 3. It aids in evaluating the expenditure incurred for imparting further education and training to employees in terms of the benefits derived by the firm.
- 4. It helps identifying the causes of high labour turnover at various levels and taking preventive measures to contain it.
- 5. It assists in locating the real cause of low return on investment, that is whether it is due to improper or under-utilization of physical assets or human resources or both.
- 6. If a financial analyst is interested in understanding and assessing the inner strength of a firm, such inner strength does not merely depend on the physical assets owned and possessed by the firm. It also depends upon

the type of human resources available to the firm. The vigilant, dynamic and responsible management can steer the company well through most adverse and unfavourable circumstances.

Advanced Financial Acc		11.4	\vdash	Social Balance Sheet)
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- 7. The HRA data would also be relevant to investors, financiers, creditors, etc for decision making purposes. Strategic decisions concerning mergers and acquisitions could be based on the quality and skills of people available.
- 8. It is important to know whether human assets are appreciating or depreciating over a period of time and identify causal factors for proactive actions.

11.4. OBJECTIVES OF HUMAN RESOURCE ACCOUNTING

Different studies conducted on Human Resources Accounting and the proponents of the concept enlisted various objectives. The significant objectives are:

- To provide quantitative information on human resources which will help the managers as Tell as investors in making decisions.

 To furnish cost/value information for making management decision and maintaining

- human resources in order to attain cost effective organizational objectives.

 So help in knowing whether the human resources have been properly utilized or not.

 To allow management personnel to monitor effectively the use of human resources (Rensis Likert).
- of nat on ed of

	(Rensis Likert).
e.	To communicate the worth of human resources to the organization and the society at
	large. 39
	To help in determining the return or so vestment on human resources.
g.	To provide information regarding the cost of recruitment, training and other costs of developing their skill; how long such development cost of HRA will yield benefit, what human resources are more costly to be managed by exception, how much cost on maintaining the human resources; how effectively human resource are being utilized etc. such information to the management will definitely increase in the efficiency of human resources management.
Activit	v 2
	Taking your organization or an organization [59] know identify the factors and qualities of
Human	Resources that add to the value of the Human resources as an Asset and those
	vely influence its value. Give your reasoning also.
	3

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11.5. METHODS OF HR VALUATION

A few approaches for the valuation of human resources include the following:

13
1. Instorical Cost Approach, developed by Brummet, Flamholtz and Pyle, emphasizes that the actual cost incurred on recruiting, selecting, hiring, training and developing the human resources of the organisation are capitalized and written off over the expected useful life of the human resources.

- Replacement Cost Approach, developed by Rensis Likert and Eric G. Flamholtz, values the human resources at their present replacement cost.
- apportunity Cost Approach, suggested by Hekimian and Jones, values an employee according to his alternative use. In case an employee has no alternative use, no value is to be added.
- Tandard Cost Approach, suggested by David Watson, takes into account of the standard costs of recruiting, hiring, training and developing of employee year after year.
- 5. Present Value Approach values the human resources of an organization at their present value to the organization. For determination of the present value, a number of valuation methods that have been developed are:
 - Present Value of Future Earnings Model-Law and Schwarts (1971).
 - Reward Valuation Model Flamholtz (1971).
 - Net Benefit Model Morse (1973)
 - Certainty Equivalent Net Benefit Model Pekin Ogan (1976).
 - Aggregate Payment Approach S.K. Chakraborty (1976).
 - Total Cost Concept N. Dasgupta (1978).

All these models at best can assess the value of the human factor in organizations. They cannot evaluate properly the values of different sources of human beings in organizations. And also they fail to evaluate the extent of matching the sources of animate resources with the

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applications. Further, the process of conversion of animate sources into animate applications and creation of inanimate liabilities and assets is not clear.

A brief appreciation of the various methods of Human Resource Valuation is presented above and a comprehensive explanation of each method is provided in the following discussion.

1.HISTORICAL COST APPROACH:

This model of valuing human resources was first developed by William C.Pyle (assisted by R. Lee Brummet and Eric G. Flamholtz) at R.G. Barry Corporation, a leisure footwear manufacturer in Colombus, Ohio (USA) in 1967. In this approach, actual costs incurred on recruiting, selecting, hiring, training and developing the human resources of an organization are capitalized and amortized over the expected useful life of the human resources. Prof. Flamholtz refers to such costs as original costs of huppen resources refers to the sacrifice that was actually incurred to acquire and develop people. Thus, a proper record of expenditure made on hiring, selecting, training and developing the employees is kept and a part of it is written off to income of the next few years during which human resources will provide services. historica sept of human resources is very much similar to the book value of the other physical 22sets. The value of human resources can be increased substantially by making investments in training in the same manner as the value of fixed assets is increased by making additions in them. Such additional costs incurred in training and development are application and are amortized over the remaining life. The unexpired value is shown in the Balance Sheet as investment in human resources.

MERITS:

- 1. This approach is simple an easily calculated without sophistication
- 2. It meets the test of traditional principles of accounting i.e., it is only an extension of the ncept of proper matching of cost and revenue.
- It can help a firm in finding out a return on human resources investment.

DEMERITS:

- 1. It takes into account only the acquisition cost of employees, ignoring the aggregate
- Palue of their potential services. It is difficult to determine the number of years over which the effect of investment on mployees will be realized.
- is also difficult to fix a rate of amortization.
- The value of an asset decreases with amortization. In case of human resources the situation is just the reverse. With the acquisition of experience and training in the course of time the utility of employees increases rather than decreasing.

2. REPLACEMENT COST APPROACH:

Rensis Likert and Eric G. Flamholtz are the proponents of this method. The cost of replacing the existing employees is taken as the measure of human resources of a company. The cost involved in replacing the existing employees with new employees of the equal talent and skills is used as the measure of the Human Resource value. This method takes consideration the cost of acquiring and developing the new employees. Excepting this the replacement cost approach is almost equal in its approach to historical cost method.

Likert suggested determination of the value of total human organization on the basis of the assumption that a similar organization is to be created from scratch. Thus this approach 11.7

concentrates on the current value rather than the past value. In this method the costs of recruiting, selecting, training, developing etc., of new employes to reach the level of competence of existing employees are taken into consideration. Hekimian and Jones have advocated the use of replacement cost approach saying that the value of a human being is assessed at the estimated cost of replacing him with another person of equivalent talents and experience.

MERITS:

- This approach considers the current price level changes in valuation of Human Resource.
- It povides a more realistic value of Human Resource under conditions of inflation.
- It is an improvement over the Historical cost approach in the sense it has current or present orientation and rationality.

DEMERITS:

- Human beings differ from one to another. Therefore it is difficult to find an exactly similar replacement for the existing employees.
- 2. Valuation under this method lacks verifiability due to changes in market position.
- Measurement of qualitative aspects like knowledge, competence, emotional balances, commitment, morale and motivation etc. of the employees for comparison of the human resource for replacement is a difficult task.

3. OPPORTUNITY COST APPROACH:

Economic concept of opportunity cost is the basis of this method of reasuring the value of human resources. Joel Dean in his book 'Managerial Economics' defined opportunity cost as the most profitable alternative use that is foregone by putting it to the present use. This approach columnar resource valuation suggests that when there is an alternative use of the existing human asset the value of that alternative use is the value of the existing human asset.

This method of valuation is most suitable and rationale when the said employees are cand when there is market bidding for the scarce human resource. Thus it is clear those types of employees that can be readily hired from outside are specifically excluded as there involves no scarcity or bidding process for such a human resource. However, this approach has narrowed down the concept of opportunity cost by restricting it to the next best use of the employees within the same organization.

For any ample there are two departments A and B in a compacy with a capital in physical assets of Rs.20 lakhs (A) and Rs.10 lakhs (B). The desired ratio of return on the total assets or capital, both in physical and human assets, is 10%. It is expected that with the employment of a specific skilled human resource Department A can make a profit of Rs.6 lakhs while Department B Rs.5 lakhs. Suppose the capitalized value of profits for Department A comes to Rs.30 lakhs and for Department B Rs.25 lakhs. Now if the physical assets value is deducted from these figures. The remaining value i.e., of human assets comes to Rs.16 lakhs in case of Department A and Rs.15 lakhs in respect to B. Therefore Department B can offer a higher bid for human resource when compared to B. This is also because Department B can offer a salary Rs.1.5 lacks (Rs.15 lakhs v.10%) as against only Rs.1.0 lakh (Rs.10 lakhs x 10%) in the case of A Department. Thus Department B values



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Social Balance Sheet

its human resource at Rs.1.5 lakhs and this stands as the opportunity cost for the human resources of Department A.

MEDITS:

- 1. This approach is based on the principle of demand and supply of Human Resource.
- As the competitive bidding process is the base for this method it provides an optional allocation of human resource within an organization.
- This method provides a quantitative base for planning and developing the human assets of an organization due to value comparisons.

DEMERITS:

- This method lacks objectivity and fails to provide valuation for that Human Resource in plenty and not in scarcity.
- This method is discriminatory in approach and lets down the morale of employees and specialists who cannot be used in other divisions.
- The skilled human resource, if existing in less profitable divisions, will be measured at a less value according to this method.

4. PRESENT VALUE APPROACH:

An important approach to the evaluation of human resource assets is to calculate their economic values. This concept is based on the view that difference in present and future earnings of two similar firms is due to the difference in their human organization. The economic value of the firm can be determined by obtaining the present value of future earnings. A number of valuation models have been developed for determining the present value of future earnings. Some of the important models have been discussed as below:

(a) THE LAV AND SCHWARTZ MODEL:

Lav and Schwartz developed an economic model in 1971 for determining the value of human resources in a firm, the value of human capital in a person of age 'T' is the present value of his remaining future earnings from employment in the form of salaries, wages, etc.

According to this model, the value of human resources is ascertained as follows:

(i) All employees are classified in specific groups according to their age and skill, (ii) Average earning is determined for various ranges of age, (iii) the total earnings which each group will get upto retirement age are calculated, (iv) The total earnings calculated as above are discounted at the rate of cost of capital. The value thus arrived at will be the value of human resources/assets.

The formula for calculating Human Resource value under this model is

$$V_{T} = \sum_{t=T} \frac{I(t)}{(i-r)^{t-T}}$$

Where 7

 V_T = the value of human capital of a person T year old.

I(t) = the annual earnings of the person upto retirement.

r = the discount rate of the cost of capital

T = the age of retirement.

Lav and Schwartz have take a hypothetical example to show the computation of value of human capital of a firm. The present values of future earnings for each group have been determined and the total of such present values have been shown as the firm's value of human resources. However, the Lav and Schwartz model suffers from the following limitations:

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(i) The model does not consider the possibility of leaving a firm by an employee. (ii) The model ignores the possibility of promotion of employees. (iii) It does not consider the contribution of the firm in developing the value of human capital. Inspite of the above limitations, the Lav and Schwartz model is the most popular economic model for determing the value of human resources of a firm.

(b) REWARD VALUATION MODEL - FALMOTZ (1971):

This model identifies the major variables that determine an individual's value to an organization. According to this model, the ultimate massure of an individual's value to an organization is his expected realizable value. There is a dual aspect to an individual's value (i) the amount an organization during the period of his productive service if he remains an employee of the organization during the period of his productive service life and (ii) the amount actually expected to be deved, taking into account the person's likelihood turnover. The model is based on the notion that a person's value to an organization depends upon the positions to be occupied by him in the organization. An individual generates values for an organization association occupies and moves to different roles and renders services to the organization. The movement of people from one organizational role to another is a stochastic process.

The model suggests a five-step approach for assessing the value of an individual to the organization, which have to be followed:

- Forecasting the period a person will remain in the organization i.e. his expected service life.
- (ii) Identifying the service states i.e. the roles that he will occupy including the time at which he will quit the organization.
- (iii) Estimating the value derived by organization when a person occupies a particular position (i.e. a service state) for a specified time period.
- Estimating the probability of occupying each possible mutually exclusive state at specified future times.

According to Flamholtz, an individual's expected realizable value is determined by two factors (i) the individuals conditional value and (ii) the probability that the individual will maintain his expected service life. The product of these two variations is the present worth the services actually expected to be derived by an organization. An individual's conditional value is determined by two factors (i) his skill; and (ii) his activation level. Besides, the personal factors determining the conditional value of an individual, there are organizational factors as well. These are (i) the role occupied/performed by the individual within the organization; and (ii) the organizational rewards.

Prof. Flamholtz has presented the following formula for calculating an individuals expected realizable value:

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E(RV) =
$$\Sigma \frac{R_1 P(R_1)}{t=1 (1+r)^1}$$

Where

E(RV)= Expected Realizable value

R₁= Value derived by organization in each possible state.

P(R₁) = Probability that the organization will derive R₁

t = time

n = the state of exit

(1-r) 1 = the discount factor

Thus, a person's expected realizable value is the product of conditional value and the probability that 27 e person will maintain organizational membership. The probabilities (P) in the above formula are determined on the basis of the firm's past experience.

(C) NET BENEFIT MODEL - MORSE (1973)

According to this model, the value of human capital is determined on the basis of the present value of net benefits derived by the organization from the expected future services of its employees. It involves the following steps:

- (i) Determination of the gross value of future services to be rendered by imployees in their individual capacities as well as operating in groups.
- (ii) Determination of the cost, i.e., the total future payments to be made to the employees.
- (iii) Calculation of 'net benefit' to the organization on account of human resources by subtracting (ii) from (i).
- (iv) Calculation of the present value of the net benefits by discounting at predetermined rate of discount.

(d) CERTAINTY EQUIVALENT NET BENEFIT MODEL - PEKIN OGAN (1976)

Pekin Ogan's model extends some of the concepts advanced by Flamholtz & Lav and Schwartz and also specifies certain variables which have not been stated in the earlier studies. In the proposed model, the researcher has incorporated and highlighted the effects of costs and benefits. According to his approach, which he calls as 'Value – oriented quantification approach', the total adjusted net present human resource value of a professional service organization is equal to the aggregate discounted certainty equivalent net benefits of the employees in the organization. Pekin Ogan's model presents a new concept of determination of certainty – equivalent net benefits stream for each employee in an organization. This model takes with accounts the 'costs' generated by the employees for the organization, which the organization is accounted to the costs' generated by the organization of the organization

(e) AGGREGATE PAYMENT PPROACH - S.K. CHAKRABORTY (1976)

Prof. Chakraborty was the first Indian to suggest a model for the Human Resource Valuat . This model values the human resource as a group and not on individual basis. This model involves the following steps:

- (a) All the employees of an organization are divided in two groups, managerial and nonmanagerial.
- (b) The average tenure of the employment of the employees in the group is estimated on the basis of past experience.

(c) The average salary of the group is determined on the basis of the salary wage structure prevalent the organization..

(11.11

- (d) The value of human resources is now determined multiplying the average salary of the group with the average tenure of the employees in that group.
- (e) The value determined under (iv) above, is discounted at the expected average after tax return on capital employed over the average tenure period to ascertain the present value of the estimated future payment.

Chakraborty has also suggested that the recruitment, hiring selection, development and training cost of each employee should be recorded separately. This should be treated as deferred revenue expenditure and may be written off over the expected average stay of the employee in the organization. The deferred portion, not written off, should be shown in the Balance Sheet of the organization.

(f) TOTAL COST CONCEPT - N. DASGUPTA (1978)

(g)

Prof. N. DasGupta suggested this approach in 1978. He points out that all the earlier methods considered only employed persons and unemployed are ignored in the valuation process. This is a national approach where in the unemployed human resource is also taken into the purview along with employed persons.

DasGupta is of the view that the total cost incurred by the individual the state and the organization in bringing the individual, upto that position in the organization should be taken as the value of a person on the day he starts serving the organization or becomes for appropriate employme(1). It will include his education, training expenses which he and the state have incurred. The value should be further adjusted by the amount of intelligence. The amount spent by the organization on recruitment training, familiarizing and developing human beings employed in the organization should be considered separately. However, it should also be treated as a cost increasing the value of human beings. In case the number is large, the valuation can be done group-wise. The value determined in the aforesaid manner should be adjusted at the end of each year by the organization on the basis of his age, seniority, status, performance, experience, leadership, managerial capabilities, etc. The measurement can be done with the help of psychologists and other confirmed experts.

This model seems to be sound theoretically, but its practical application may be difficult.

11.6. HR VALUATION - RECORDING AND DISCLOSURE

The exponents of human resource valuation models in most cases have not dealt with the mode of recording and disclosure of the accounting information relating to human resources in the books of accounts of financial statements of the organization. This has been left to the discretion of the accounting bodies who have yet to develop a generally accepted basis for valuation, reccipling and disclosure of human resource accounting information in the financial statements of organization. As regards disclosure of accounting information relating to human resources, Professor Chakraborthy has suggested that 'human assets' should be shown under the heading "Investment" in the Balance sheet of an organization. He has not favoured its inclusion under the heading fixed assets since it would cause problem of depreciations, capital gains and losses, in the event of their exit. Similarly, he has not favoured their inclusion in current assets on the ground that this will not be in conformity with the general meaning of the

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According to Prof. Das Gupta, the human resources valued as per his model should be shown both on the "assets" as well as "liabilities" sides of the balance sheet. On the assets side, it should be shown after the fixed assets as Human Assets classified into two part – (i). value of individual, (ii) value of firm's investment. On the "liabilities" side, it should be shown after the capital as Human Assets Capital by that amount at which it has been shown on the asset side against 'value of individuals'.

The following illustration enables you understand the way the valuation is recorded in the Balance Sheet.

A business is started it a capital of Rs.10,00,000 and fixed Assets are acquired to the tune of Rs.5,00,000. The current Assets are Rs.2,80,000, goodwill Rs.60,000. The value of Human Resource is calculated as Rs.2,20,000 and an amount of Rs.1,90,000 is incurred on employee recruitment and subsequent development current liabilities Rs.1,60,000.

BALANCE SHEET AS ON 31ST DECEMBER (including Human Resource Values)

Liabiabilities	Rs.	Assets	Rs.
Capital	10,00,000	Current Assets	2,80,000
gapital in Human Resource	1,90,000	Fixed Assets	6,00,000
Current liabilities	60,000	Human Resource Valve	2,20,000
		Investment in Human Resource	1,90,000
		Goodwill	60,000
	13,50,000	-	13,50,000

HRA DISCLOSURE - INDIAN EXPERIENCE

The Indian companies Act 1956, which provides guidelines for the prepation of financial statement of company does not stipulate any provisions for the disclosure of Human Resource values excepting the particulars of the employees whose remuneration per annum above Rs.3.00 lakhs. But some large enterprises in the public sector felt the importance of human Resource Accounting and started disclosing information. In this regard BHEL is the pioneer providing Human Resource information since mid 1970. Enterprises like ACC, BHEL, CCI, EIL, ONGC and NTPC have, in 1980's began to take interest in extending financial reporting system to human resource also. Almost all of them have thought it appropriate to base their HRA along the model developed by LAV and Sowartz. Under this model the discounted value of employees' future earnings are treated as the value of the human assets of the organization. The following assumptions are usually made, in Indian context, while applying the model:

- Present pattern of employee compensation including direct and indirect benefits and aspective wage revisions are to be reckoned;
- Normal career growth as per present policies, with vacancies filled from the levels immediately below;
- · Weightage for changes in efficiency due to age, experience and skills; and,

 the present value of future earnings is calculated on a discount factor of 12% per annum.

11.7. OBJECTIONS TO HRA

Because the concept of HRA is new and legal recognition is absent, there are some objections against the practice. Despite the following stated objections some organizations of repute, both in the public sector and private sector, follow Human Resource Accounting. For instance Infosys in private sector is a forerunner in this regard.

Some of the significant objections are:

- a) Human assets are different from other Assets. Therefore these assets cannot be valued precisely and confidently. Moreover, the values are not convincing.
- b) Human Resource assets remain theoretical because neither the tax laws nor the Accounting codes recognize Human Assets with monetary values.
- c) Human beings and their valued skill and expertise is the personal property of the individual and cannot 3 owned permanently by the organization. Therefore showing human resource value in the company's Balance sheet lacks rationality.
- d) The Human Resource values lack objectivity because the factors taken for Human Resource valuation are mostly arbitrary and not monetarily measurable.
- e) The approaches to valuation give varying results de to adoption different bases.
- Neither the procedure of disclosure is codified and the method of Human resource valuation recognized.

In these days of wider mobility and turnover of employees in the era of privatization, Human Resource valuation and Accountability stands with a weak rationale. This is more due to absence of permanent employees in many organizations.

However, the objections raised by the behavioral scientists against the traditional new for the development and popularity of human resource accounting.

11.8. SOCIAL ACCOUNTING - A FOUCS

RATIONALE:

Social Accounting is congerned with the development of measurement system to monitor social performances. It is rational assessment of and reporting on some meaningful domain of business enterprise activities that have social impact. It is an expression of company's social responsibilities and requirements of general corporate accountability. The information of social Accounting is communicated to social groups both within and outside the

CONCEPT AND ORIGIN: 1

The concept of Social Accounting is not an application of a new set of accounting rules and procedures. In this field of accounting the same basic principles of enterprise accounting are applied. Salivary explained it as the expansion of the existing boundaries of the accounting beyond the normal economic consequences to include economic consequences, which the conventional systems did not consider. The areas covered by Social Accounting include pollution control, "Community relations, "Product quality, plant safety, equal employment opportunity, charitable contributions, employee benefits, and responsiveness to consumer

complaints. Social Accounting is associated with the study and analysis of measuring and reporting practices of those activities of an organization which are undertaken the effect of such activities on the social welfare. Social Accounting tries to measure the effect of such activities on the society and the enterprise itself in quantitative as well as qualitative terms. It also tries to analyse and evaluate the organizational behaviour in the light of such activities.

The concept of Social Accounting originated in different forms by Adam Smith in 1776, Later on, Karl Marks and Engel also expressed their views about social costs in 1844, Karl Marx went to the extent of saying "under this free trade the whole severity of the economic laws will fall upon the workers". Pigou in 1920 also elaborated the divergence of social and private costs. Economists like E.H. Chamberlin in 1945, Joan Robinson in 1960 expressed their concern directly or indirectly about the social costs of an industrial organization.

DEFINITIONS:

For a more comprehension of the concept of Social Accounting some of the important definitions which are self explanatory are given below:

The 41 ational Association of Accountants (USA) Committee on Social Accounting defined it as the identification, measurement, monitoring and reporting of the social and economic effects of an institution on society..... It is intended for the internal managerial and external accountability purposes, and is an outgrowth of changing values that have led society to redefine its notion of a corporations' social responsibility.

Leonard Spacek described 'Social Accounting' as the means by which the effects of social programmes are attempted to be expressed in some type of quantitative terms.

Kohler defined 'Social Accounting' as the application of double entry book-keeping to 'socio-economic' analysis. But this is an orthodox definition as it is based on application of book-keeping principles rather than sophisticated techniques of management accounting to the national socio-economic situation. Now, the Social Accounting is used for toning up the economic health of a nation.

Elliot employed the expression, "Social responsibility accounting" which, according to him, "is a systematic assessment of and reporting on those parts of a company's activities that have a social impact. Social responsibility accounting, therefore, describes the impact of corporate decisions on environmental pollution, the consumption of non-renewable resources, and ecological factors; on the rights of individuals and groups; on the maintenance of public services; on public safety; on health and education and many other such social concerns".

Este defined it as 'the measurement and reporting, internal and external, of information concerning the impact of an entity and its activities on society. Thus, he viewed that social Accounting is an independent discipline which is to measure and report the activities of an entity in-so-far as they affect the society.

In conventional Accounting measurement of economic consequences in terms of money is the primary function but Social Accounting seeks to determine important variables of social consequences in terms of socio-economic non-monetary effects along with economic consequences. The function of Social Accounting is to measure and disclose the 'costs' and 'benefits' to society created by the production-related activities of a business enterprise.

In Nutshell social accounting is a branch of accounting which attempts to measure the social benefits that an organization provides and the social costs that an organization incurs.

(11.15)

OBJECTIVES:

K.V. Ramanathan suggests the following objectives for social accounting:

- (a) to identify and measure the periodic net social contribution of an individual firm, which includes not only the social costs and benefits internalized by the firm, but also those arising from externalities and affecting different social segments:
- (b) to help determine whether an individual firm's strategy and practices which directly affect the relative resource and power status of individuals, communities, social segments and generations are consistent with widely shared social priorities on the one hand and individuals' legitimate aspirations on the other; and
- (c) to make available in an optional manner to all social constituents relevant information on a firm's goals, politics, programmes, performance and contribution to social goals.

SOCIAL ACCOUNTING IN INDIA:

Social Accounting has not been widely practiced in India, because social accounting has not been introduced a statutory requirement in Indian Companies Act 1956. There are no rigid instructions under the companies Act, 1956 to require companies to attach information about their social performate during the accounting year in notes and schedules, even though its need was felt by the Highardowered Expert Committee on companies and MRTP Act (Sanchar Committee). It, has observed that the acceptance of the concept of social responsibility must be reflected in the information and the disclosures that the company makes available for the benefits of the various constituents like the share holders, creditors, workers and the community. A few attempts have, however, been made by some of the enlightened company managers, of both the public as well as private companies, to exhibit some information, descriptive as well as quantitative, regazding the social activities under taken by them in their respective annual reports particularly in public sector, there is growing awareness for reporting social accounts in annual reports as a supplement to the annual accounts.

The ten such public sector companies are : 1. Oil and Natural Gas Commission (ONGC), 2. Cement Corporation of India (CCI), 3. Steel Authority of India Limited (SAIL), 4. Bharat Heavy Electricals Limited (BHEL), 5. Oil India Limited (OIL), 6. Hindustan Aeronautics Limited (HAL), 7. India Petrochemicals Limited (IPCL), 8. Fertilizer Corporation of India (FCI), 9. Indian Iron and Steel Company Limited (IISCL), 10. Maruti Udyog Limited (MUL) etc.

Corporate Social Accounting and reporting and its success depends upon development of standards for Accounting, suitable legislation, quantification of social accounting information. Moreover, social indicators should be developed at national, regional and local levels. These indicators should be in the areas of (i) Employment opportunities; (ii) Product quality and safety; (iii) Quality of working life; (iv) Energy conservation; (v) Environment control; (vi) Research and Development; (vii) Foreign exchange transactions; (viii) Contribution to Govt. Exchequer; (ix) Social projects; (x) Consumerism; (xi) Health, education etc.

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Above all mere legislation would not solve the problem, the organizations should take social accounting and reporting as their moral obligation.

11.9. SOCIAL BALANCE SHEET - A MODEL

In India there is no obligation for companies to provide information on social costs and social benefits in term and social benefits in term and social benefits. But progressive companies like Tata Iron & Steel Company, BHEL, Minerals and Metals Trading Corporation of India, Cement Corporation of India etc., provide such information. The social costs and benefits on account of social responsibilities discharged by the company may be presented in the form of narrative statement consisting of efforts in the areas of pollution control, saving is foreign exchange, hospitals and townships, increase in employment opportunities, spreading education, environment protection, saving is power consumption, social infrastructure provision etc.

For Sofial Accounting and Social Balance Sheet, Social Cost-Benefit Assessment is a pre-requisite. A business organization is also a social unit. It uses the society's resources and produces goods and services for which the society is the ultimate consumer. Thus, a business unit owes its very existence to the society. It is, therefore, necessary that a business should operate within the overall parameters determined by the society. Similarly, the society is also to see that such business, activities should be undertaken which are beneficial to the society as a whole. The basic philosophy behind this arrangement is that all sectors of the economy, public or private, small or big, should work for the overall good of the society. It is being increasingly realized that commercial evaluation of industrial projects is not enough to justify commitment of funds to a project, especially when it belongs to the public sector. Evaluation of such projects cannot be done strictly on commercial principles. Their evaluation of such projects cannot be done strictly on commercial principles. Their evaluation of such projects cannot be done strictly on commercial principles. Their evaluation of such projects cannot be done strictly on commercial principles. The Planning Commission has already decided that in future the feasibility studies for the public sector projects will include an analysis of the social rate of return. In the case of private sector also, a socially beneficial project may be more easily acceptable to the Government and hence the social cost benefit analysis will be relevant while granting various licenses, approvals etc.

SOCIAL BALANCE SHEET - A MODEL

Liabilities	Rs.(Lacks)	Assets	Rs. (Lacks)
A. Organizational Equity	xx	A. <u>Social Capital Investment</u> Township Buildings	xx
B. Social Equity		Canteen Accommodation	xx
contribution by staff	xx	Township Roads	xx
		Township Water, Savrage	xx
		Township Electrification	xx

Acharya Nagarjuna University	11.17 Centre f	or Distance Education
	B. Other Social Assets	
	Hospital Buildings & Equipment	xx
	School Buildings	xx
	School Buses	xx
	Pollution control equipment	xx
	Social infrastructure	xx
	C. Human Assets	xx
XX	_	xx

ACTIVITY

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11.10 SUMMARY

This unit is meant to help your ability to understand the Human Resource Accounting concept and its dynamics. In this process the methods of Human Resource valuation or

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peasures of Human Resource as an asset are explained. The different methods include -Historical cost approach, Replacement cost approach, Opportunity cost approach, Economic Value method, etc. Each method of valuation is associated with its inherent merits and demerits.

Human Resource Accounting though hailed to accomplish a number of objectives there exist strong objections against it.

The unit also helped you to understand the social Accounting in the light of the increasing recognition of Social responsibilities and their discharge by the companies as social stment for business success. An awareness is also provided to you about the Social Balance Sheet.

11.11 SELF ASSESSMENT QUESTIONS

- 1. Explain the concept of Human Resource Accounting and its objectives and importance.
- 2. Explain and evaluate the methods of Human Resource Valuation.
- 3. Define Human Resource Accounting. Explain the objectives and objections relating to Human Resource Accounting.
 What is Social Accounting? Construct an Illustrative Social Balance Sheet.
- 5. Brief Explain the present value approach to HR Valuation.

11.12 KEY WORDS

Historical Cost : The expenditure incurred to recruit, train, induct and develop an

employee.

Opportunity Cost :The actual or assumed rate for capitalization of the differential

earnings expected to be earned by an employee.

: It is the process of identifying, measuring and Accounting Human Resource

communicating information about human Resources in financial

terms to aid HRP and control.

Replacement Cost : It is the cost of replacing an existing employee.

HRP : Human Resource Planning which means determining quantity

and quality of Human Resource required.

11.13 FURTHER READING

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