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15CMU601

CORE –MANAGEMENT ACCOUNTING

Course Objectives

- To enable the students to understand the importance of the subject through various analysis.
- Helps the student to prepare management reports by using funds flow and cash flow statement.
- To support management in planning decision making in a variety of business contexts.

Learning Outcome

Management accounting is very wide and broad based and its include variety of aspects of business operations. It enhances the knowledge on preparation of financial statement, ratio analysis, fund flow and cash flow statement to take management decisions.

UNIT – I

Management Accounting: Meaning – Nature – Scope – Function- Comparison of Management Accounting, Cost Accounting and Financial Accounting – Role of Management Accounting in Decision Making – Management Accountant – Functions.

$\mathbf{UNIT} - \mathbf{II}$

Financial Statements Analysis: Meaning – Nature – Objectives – Limitations – Tools Common Size Statement- Comparative Statement – Trend Analysis – Ratio Analysis – Meaning Objectives – Significance- Limitations – Classifications of Ratio – Short Term Solvency Ratio – Long Term Solvency Ratio – Activity Ratio – Profitability Ratio.

UNIT – III

Fund Flow Statement and Cash Flow Statement: Meaning – Definition – Objectives – Uses – Limitation – Procedure. Cash Flow Statement – Meaning – Objectives – Significance – Distinguish Between Fund Flow Statement and Cash Flow Statement.

$\mathbf{UNIT} - \mathbf{IV}$

Marginal Costing: Meaning – Definition – Objectives – Scope – Advantages and Disadvantages of Marginal Costing – Cost Volume Profit Analysis – Profit Volume Ratio – Contribution – Break Even Point – Margin of Safety – Break Even Chart.

$\mathbf{UNIT} - \mathbf{V}$

Budgetary Control: Definition – Objectives – Advantages – Limitations – Classification of Budgets – Time – Flexibility – Functions – Zero Based Budgets(ZBB) – Steps in Budgetary Control.

Note: Distribution of marks for theory and problems shall be 20% and 80% respectively.

Textbook

1. Maheswari. S.N. (2014) Management Accounting. Kalyani Publishers. Ludhiana.

References

- 1. Battacharya.S.K. John Dearden. (2015). *Accounting for management*. New Delhi. Vikas Publishing House Pvt Ltd.
- 2. Srinivasan.N.P. (2008). *Management and financial Accounitng*. New Delhi. Sterling Publishers Pvt Ltd.
- 3. Khan M.Y. and Jain P.K. (2008). *Management and Cost Accounting*. New Delhi Tata Mcgraw-Hill Publishing Company Ltd.

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University Established Under Section 3 of UGC Act 1956) Coimbatore – 641 021.

LECTURE PLAN DEPARTMENT OF COMMERCE

STAFF NAME: P.KALAIVANI

SUBJECT NAME: MANAGEMENT ACCOUNTING SEMESTER: VI

SUB.CODE:15CMU601 CLASS: III B.COM

UNIT I

S. No	Lecture Duration (hour)	Topics to be Covered	Support Materials
1	1	An overview of Management Accounting:	R1:1
		Meaning, Definition of management accounting	R2:1.10-1.12
2	1	Nature of Management Accounting	R2:1.13-1.14
3	1	Scope of Management Accounting	R2:1.14-1.16
4	1	Functions of Management Accounting	T1:5-6
5	1	Advantage and disadvantage of Cost & Financial Accounting	R2:1.8-1.10
6	1	Management Accounting Vs Cost Accounting	T1:9
7	1	Management Accounting Vs Financial Accounting	R2:1.19-1.21
8	1	Advantages of Management Accounting	T1:1.16-1.17
9	1	Disadvantages of Management Accounting	T1:9-10
10	1	Role of Management in decision making	T1:1.23-1.24
11	1	Tools of Management Accounting	T1:6-7
12	1	Functions of Management Accountant	T1:7-10
13	1	Recapitulation and Important	
		Question Discussion	
Total N	13 Hours		

UNIT II

S.No	Lecture Duration (hour)	Topics to be Covered	Support Materials
1	1	An Overview of Financial Statement Analysis: Meaning, Nature & Objectives	T1:92-95
2	1	Types of financial analysis - analysis & Interpretation	T1:16-19
3	1	1. Comparative statement : Computation of comparative statement	T1:99-100
4	1	2. Common size statement: Computation of common size statement	T1:100-104
5	1	3. Trend Analysis Computation of Trend Analysis	T1:105-108
6	1	Ratio Analysis: Meaning, Objective	T1:116-117
7	1	Significance & limitations of ratio analysis	T1:117-118
8	1	Classifications of ratio analysis : 1. Classification according to statement 2. Classification according to function Significance ratio	T1:118-154
9	1	Problems on short term solvency ratio	T1:118-120
10	1	Problems on short term solvency ratio	T1:118-120
11	1	Problems of long term solvency ratio	T1:126-127
12	1	Problems of long term solvency ratio	T1:126-127
13	1	Problems of Activity ratio	T1:129-131
14	1	Problems of Profitability ratio	T1:131-138
15	1	Recapitulation and Important Question Discussion	
Total No	o. of Hours	planned for Unit – II	15 Hours

Prepared by P.Kalaivani ,Department of Commerce ,KAHE

S No.	Lecture Duration (hour)	Topics to be Covered	Support Materials			
1	1	An overview of fund flow & cash flow statement	T1: 183-185			
2	1	Uses and limitations of fund flow statement, fund flow Vs Income statement	T1: 237-238			
3	1	Procedure for preparing fund flow statement	R2:5.10-5.12			
4	1	Schedule of changes in working capital	T1: 187-188			
5	1	Calculation of fund flow statement	T1: 188-189			
6	1	Calculation of fund flow statement	R2:5.11-5.13			
7	1	Problems of fund flow statement	T1: 5-13			
8	1	Problems of fund flow statement	T1: 5-13			
9	1	Cash flow statement: Objectives	T1: 251			
10	1	Advantages & Disadvantages of Cash flow statement; Fund flow statement Vs Cash flow statement	T1: 251-253			
11	1	Procedure for preparation of cash flow statement	T1: 253-254			
12	1	Sources and application of cash	R2:5.15-5.16			
13	1	Calculation of cash flow operation	R2:5.16-5.18			
14	1	Problems of cash flow statement	R2:6.11-6.13			
15	1	Problems of cash flow statement	R2:6.17-6.20			
16	1	Recapitulation and Important Question Discussion				
Total No	otal No. of Hours planned for Unit – III 16 Hours					

UNIT III

S.No	Lecture Duration (hour)	Topics to be Covered	Support Materials
1	1	An overview of Marginal Costing	T1:301
2	1	Features and objectives of Marginal Costing	T1:301
3	1	Advantages of Marginal Costing	R2: 8.3-8.4
4	1	Disadvantages of Marginal Costing	R2: 8.4-8.5
5	1	Limitations of Marginal Costing	T1:304-306
6	1	Cost volume profit analysis - Meaning, Contribution	T1:316-317
7	1	Cost volume profit analysis - Sales ratio	T1:316-317
8	1	PV Ratio – Problems	T1:317-319
9	1	PV Ratio – Problems	T1:319
10	1	Break Even Pont : Introduction & Margin of Safety	T1:319-320
11	1	Problems of Break Even Point & Chart	T1:321-322
12	1	Problems of Break Even Point	R2: 8.21-8.24
13	1	Problems of Break Even Sales	R2: 8.20-8.24
14	1	Problems of Break Even Sales	R2: 8.14-8.17
15	1	Advanced problem with marginal costing	R2: 8.41-8.56
16	1	Recapitulation and Important Question Discussion	
Total	No. of Hor	urs planned for Unit – IV	16 Hours

UNIT IV

UNIT V	
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S.No	Lecture Duration (hour)	Topics to be Covered	Support Materials
1	1	An overview of Budgetary Control: Meaning of Budget, Definition, Budgetary Control	T1:426-427
2	1	Definition, importance, essentials of budgeting	T1:428-429
3	1	Advantages & Limitations of Budgetary control Classification of time factor, functions	T1:430-435 W1
4	1	Budgets : Flexibility Master Budget	W2
5	1	Preparation of different budgets : - Purchase Budget	T1:439-445
6		- Production Budget	R2: 7.14-7.19
7		- Sales Budget	R2: 7.25-7.48
8		- Cash Budget	R2: 7.47-7.48
9		- Flexible Budget	T1:447-452
10		- Master Budget	T1:452-456
11		- Zero based Budget Steps in budgetary control	T1:460-468 T1:468-469
12	1	Recapitulation and Important Question Discussion	
	Total	No. of Hours planned for Unit – V	12 Hours
13	1	Revision: Discussion of Previous Year ESE Question Papers	
14	1	Discussion of Previous Year ESE Question Papers	
15	1	Discussion of Previous Year ESE Question Papers	
Total N discuss		s planned for Unit – V& ESE Question paper	15 Hrs.

TEXT BOOK:

T1: Maheswari.S.N. (2014).Management *Accounting*. Ludhiana: Kalyani Publishers. New Delhi.

REFERNECES

- 1. R1. Khan M.Y. and Jain P.K. (2008). *Management and Cost Accounting*. New Delhi Tata Mcgraw-Hill Publishing Company Ltd.
- 2. Srinivasan.N.P. (2010). *Management and financial Accounitng*. New Delhi. Sterling Publishers Pvt Ltd.

WEB ADDRESS

W1: <u>www.yourarticllibrary.com/cost.../accounting/budgeting/classifications</u> W2: <u>www.accountingtools.com/articles/2017/5/15/flexible-budget</u>

KARPAGAM ACADEMY OF HIGHER EDUCATION

CLASS: III B.COM COURSE CODE: 15CMU601

COURSE NAME: Management Accounting UNIT: I(Management Accounting) BATCH-2015-2018

UNIT – I

Syllabus

Management Accounting: Meaning – Nature – Scope – Function- Comparison of Management Accounting, Cost Accounting and Financial Accounting – Role of Management Accounting in Decision Making – Management Accountant – Functions.

INTRODUCTION:

A business enterprise must keep a systematic record of what happens from day-today events so that it can know its position clearly. Most of the business enterprises are run by the corporate sector. These business houses are required by law to prepare periodical statements in proper form showing the state of financial affairs. The systematic record of the daily events of a business leading to presentation of a complete financial picture is known as accounting. Thus, Accounting is the language of business. A business enterprise speaks through accounting. It reveals the position, especially the financial position through the language called accounting.

MEANING OF ACCOUNTING:

Accounting is the process of recording, classifying, summarizing, analyzing and interpreting the financial transactions of the business for the benefit of management and those parties who are interested in business such as shareholders, creditors, bankers, customers, employees and government. Thus, it is concerned with financial reporting and decision making aspects of the business.

The American Institute of Certified Public Accountants Committee on Terminology proposed in 1941 that accounting may be defined as, "The art of recording, classifying and summarizing 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".

BRANCH ES OF ACCOUNTING:

Accounting can be classified into three categories:

1.Financial Accounting
 2.Cost Accounting, and

3.Management Accounting

FINANCIAL ACCOUNTING:

The term "Accounting unless otherwise specifically stated always refers to "Financial Accounting. Financial Accounting is commonly carries on in the general offices of a business. It is concerned with revenues, expenses, assets and liabilities of a business house. Financial Accounting has two objectives, viz

1.To ascertain the profitability of the business, and

2.To know the financial position of the concern.

NATURE AND SCOPE OF FINANCIAL ACCOUNTING:

Financial accounting is a useful tool to management and to external users such as shareholders, potential owners, creditors, customers, employees and government. It provides information regarding the results of its operations and the financial status of the business. The following are the functional areas of financial accounting:-

1. Dealing with financial transactions:

Accounting as a process deals only with those transactions which are measurable in terms of money. Anything which cannot be expressed in monetary terms does not form part of financial accounting however significant it is.

2. Recording of information:

Accounting is an art of recording financial transactions of a business concern. There is a limitation for human memory. It is not possible to remember all transactions of the business. Therefore, the information is recorded in a set of books called Journal and other subsidiary books and it is useful for management in its decision making process.

3. Classification of Data:

The recorded data is arranged in a manner so as to group the transactions of similar nature at one place so that full information of these items may be collected under different heads. This is

done in the book called "Ledger. For example, we may have accounts called "Salaries, "Rent[¶], "Interest[¶], Advertisement[¶], etc. To verify the arithmetical accuracy of such accounts, trial balance is prepared.

4. Making Summaries:

The classified information of the trial balance is used to prepare profit and loss account and balance sheet in a manner useful to the users of accounting information. The final accounts are prepared to find out operational efficiency and financial strength of the business

5. Analyzing:

It is the process of establishing the relationship between the items of the profit and loss account and the balance sheet. The purpose is to identify the financial strength and weakness of the business. It also provides a basis for interpretation.

6.Interpreting the financial information:

It is concerned with explaining the meaning and significance of the relationship established by the analysis. It should be useful to the users, so as to enable them to take correct decisions.

7.Communicating the results:

The profitability and financial position of the business as interpreted above are communicated to the interested parties at regular intervals so as to assist them to make their own conclusions.

LIMITATIONS OF FINANCIAL ACCOUNTING:

Financial accounting is concerned with the preparation of final accounts. The business has become so complex that mere final accounts are not sufficient in meeting financial needs. Financial accounting is like a post-mortem report. At the most it can reveal what has happened so far, but it cannot exercise any control over the past happenings. The limitations of financial accounting are as follows:-

1.It records only quantitative information.

2.It records only the historical cost. The impact of future uncertainties has no place in financial

accounting.

3.It does not take into account price level changes.

4.It provides information about the whole concern. Product-wise, process-wise, department-wise or information of any other line of activity cannot be obtained separately from the financial accounting.

5.Cost figures are not known in advance. Therefore, it is not possible to fix the price in advance. It does not provide information to increase or reduce the selling price.

6.As there is no technique for comparing the actual performance with that of the budgeted targets, it is not possible to evaluate performance of the busi ness.

7. It does not tell about the optimum or otherwise of the quantum of profit made and does not provide the ways and means to increase the profits.

8.In case of loss, whether loss can be reduced or converted into profit by means of cost control and cost reduction? Financial accounting does not answer this question.

9.It does not reveal which departments are performing well? Which ones are incurring losses and how much is the loss in each case?

10. It does not provide the cost of products manufactured

11. There is no means provided by financial accounting to reduce the wastage.

12. Can the expenses be reduced which results in the reduction of product cost and if so, to what extent and how? No answer to these questions.

13. It is not helpful to the management in taking strategic decisions like replacement of assets, introduction of new products, discontinuation of an existing line, expansion of capacity, etc.

14. It provides ample scope for manipulation like overvaluation or undervaluation. This possibility of manipulation reduces the reliability.

15. It is technical in nature. A person not conversant with accounting has little utility of the financial accounts.

CLASS: III B.COM COURSE COURSE CODE: 15CMU601 UNIT: I(M

COURSE NAME: Management Accounting UNIT: I(Management Accounting) BATCH-2015-2018

COST ACCOUNTING:

An accounting system is to make available necessary and accurate information for all those who are interested in the welfare of the organization. The requirements of majority of them are satisfied by means of financial accounting. However, the management requires far more detailed information than what the conventional financial accounting can offer. The focus of the management lies not in the past but on the future.

For a businessman who manufactures goods or renders services, cost accounting is a useful tool. It was developed on account of limitations of financial accounting and is the extension of financial accounting. The advent of factory system gave an impetus to the development of cost accounting.

It is a method of accounting for cost. The process of recording and accounting for all the elements of cost is called cost accounting.

The Institute of Cost and Works Accountants, London defines costing as, "the process of accounting for cost from the point at which expenditure is incurred or committed to the establishment of its ultimate relationship with cost centres and cost units. In its wider usage it embraces the preparation of statistical data, the application of cost control methods and the ascertainment of the profitability of activities carried out or planned".

The Institute of Cost and Works Accountants, India defines cost accounting as, "the technique and process of ascertainment of costs. Cost accounting is the process of accounting for costs, which begins with recording of expenses or the bases on which they are calculated and ends with preparation of statistical data".

To put it simply, when the accounting process is applied for the elements of costs (i.e., Materials, Labour and Other expenses), it becomes Cost Accounting.

OBJECTIVES OF COST ACCOUNTING:

Cost accounting was born to fulfill the needs of manufacturing companies. It is a mechanism of accounting through which costs of goods or services are ascertained and controlled for different purposes. It helps to ascertain the true cost of every operation, through a close watch,

say, cost analysis and allocation. The main objectives of cost accounting are as follows:-

1.Cost Ascertainment

2.Cost Control

3.Cost Reduction

4. Fixation of Selling Price

5. Providing information for framing business policy.

1.Cost Ascertainment:

The main objective of cost accounting is to find out the cost of product, process, job, contract, service or any unit of production. It is done through various methods and techniques.

2.Cost Control:

The very basic function of cost accounting is to control costs. Comparison of actual cost with standards reveals the discrepancies (Variances). The variances reveal whether cost is within control or not. Remedial actions are suggested to control the costs which are not within control.

3.Cost Reduction:

Cost reduction refers to the real and permanent reduction in the unit cost of goods manufactured or services rendered without affecting the use intended. It can be done with the help of techniques called budgetary control, standard costing, material control, labour control and overheads control.

4.Fixation of Selling Price:

The price of any product consists of total cost and the margin required. Cost data are useful in the determination of selling price or quotations. It provides detailed information regarding various components of cost. It also provides information in terms of fixed cost and variable costs, so that the extent of price reduction can be decided.

5. Framing business policy:

Cost accounting helps management in formulating business policy and decision making.

Break even analysis, cost volume profit relationships, differential costing, etc are helpful in taking decisions regarding key areas of the business like-

a. Continuation or discontinuation of production

b.Utilization of capacity

c. The most profitable sales mix

d.Key factor

e.Export decision

f. Make or buy

NATURE AND SCOPE OF COST ACCOUNTING:

Cost accounting is concerned with ascertainment and control of costs. The information provided by cost accounting to the management is helpful for cost control and cost reduction through functions of planning, decision making and control. Initially, cost accounting confined itself to cost ascertainment and presentation of the same mainly to find out product cost. With the introduction of large scale production, the scope of cost accounting was widened and providing information for cost control and cost reduction has assumed equal significance along with finding out cost of production. To start with cost accounting was applied in manufacturing activities but now it is applied in service organizations, government organizations, local authorities, agricultural farms, extractive industries and so on.

Cost accounting guides for ascertainment of cost of production. Cost accounting discloses profitable and unprofitable activities. It helps management to eliminate the unprofitable activities. It provides information for estimate and tenders. It discloses the losses occurring in the form of idle time spoilage or scrap etc. It also provides a perpetual inventory system. It helps to make effective control over inventory and for preparation of interim financial statements. It helps in controlling the cost of production with the help of budgetary control and standard costing. Cost accounting provides data for future production policies. It discloses the relative efficiencies of different workers and for fixation of wages to workers.

LIMITATIONS OF COST ACCOUNTING:

i) It is based on estimation: as cost accounting relies heavily on predetermined data, it is not

reliable.

ii) **No uniform procedure in cost accounting:** as there is no uniform procedure, with the same information different results may be arrived by different cost accounts.

iii) **Large number of conventions and estimate:** There are number of conventions and estimates in preparing cost records such as materials are issued on an average (or) standard price, overheads are charged on percentage basis, Therefore, the profits arrived from the cost records are not true.

iv) **Formalities are more:** Many formalities are to be observed to obtain the benefit of cost accounting. Therefore, it is not applicable to small and medium firms.

v) **Expensive:** Cost accounting is expensive and requires reconciliation with financial records.

vi) **It is unnecessary:** Cost accounting is of recent origin and an enterprise can survive even without cost accounting.

vii) Secondary data: Cost accounting depends on financial statements for a lot of information. Any errors or short comings in that information creep into cost accounts also. MANAGEMENT ACCOUNTING

Management accounting is not a specific system of accounting. It could be any form of accounting which enables a business to be conducted more effectively and efficiently. It is largely concerned with providing economic information to mangers for achieving organizational goals. It is an extension of the horizon of cost accounting towards newer areas of management. Much management accounting information is financial in nature but has been organized in a manner relating directly to the decision on hand.

Management Accounting is comprised of two words "Management and "Accounting. It means the study of managerial aspect of accounting. The emphasis of management accounting is to redesign accounting in such a way that it is helpful to the management in formation of policy, control of execution and appreciation of effectiveness.

Management accounting is of recent origin. This was first used in 1950 by a team of accountants visiting U. S. A under the auspices of Anglo-American Council on Productivity

Definition:

Anglo-American Council on Productivity defines Management Accounting as, "the presentation of accounting information in such a way as to assist management to the creation of policy and the day to day operation of an undertaking"

The American Accounting Association defines Management Accounting as "the methods and concepts necessary for effective planning for choosing among alternative business actions and for control through the evaluation and interpretation of performances".

The Institute of Chartered Accountants of India defines Management Accounting as follows: "Such of its techniques and procedures by which accounting mainly seeks to aid the management collectively has come to be known as management accounting"

From these definitions, it is very clear that financial data is recorded, analyzed and presented to the management in such a way that it becomes useful and helpful in planning and running business operations more systematically.

OBJECTIVES OF MANAGEMENT ACCOUNTING:

The fundamental objective of management accounting is to enable the management to maximize profits or minimize losses. The evolution of management accounting has given a new approach to the function of accounting. The main objectives of management accounting are as follows:

1.Planning and policy formulation:

Planning involves forecasting on the basis of available information, setting goals; framing polices determining the alternative courses of action and deciding on the programme of activities. Management accounting can help greatly in this direction. It facilitates the preparation of statements in the light of past results and gives estimation for the future.

2.Interpretation process:

Management accounting is to present financial information to the management. Financial information is technical in nature. Therefore, it must be presented in such a way that it is easily understood. It presents accounting information with the help of statistical devices like charts,

diagrams, graphs, etc.

3.Assists in Decision-making process:

With the help of various modern techniques management accounting makes decisionmaking process more scientific. Data relating to cost, price, profit and savings for each of the available alternatives are collected and analyzed and provides a base for taking sound decisions.

4.Controlling:

Management accounting is a useful for managerial control. Management accounting tools like standard costing and budgetary control are helpful in controlling performance. Cost control is effected through the use of standard costing and departmental control is made possible through the use of budgets. Performance of each and every individual is controlled with the help of management accounting.

5.Reporting:

Management accounting keeps the management fully informed about the latest position of the concern through reporting. It helps management to take proper and quick decisions. The performance of various departments is regularly reported to the top management.

6.Facilitates Organizing:

"Return on Capital Employed" is one of the tools of management accounting. Since management accounting stresses more on Responsibility Centres with a view to control costs and responsibilities, it also facilitates decentralization to a greater extent. Thus, it is helpful in setting up effective and efficiently organization framework.

7. Facilitates Coordination of Operations:

Management accounting provides tools for overall control and coordination of busi ness operations. Budgets are important means of coordination.

NATURE AND SCOPE OF MANAGEMENT ACCOUNTING:

Management accounting involves furnishing of accounting data to the management for basing its decisions. It helps in improving efficiency and achieving the organizational goals. The

following paragraphs discuss about the nature of management accounting.

1.Provides accounting information:

Management accounting is based on accounting information. Management accounting is a service function and it provides necessary information to different levels of management. Management accounting involves the presentation of information in a way it suits managerial needs. The accounting data collected by accounting department is used for reviewing various policy decisions.

2. Cause and effect analysis.

The role of financial accounting is limited to find out the ultimate result, i.e., profit and loss; management accounting goes a step further. Management accounting discusses the cause and effect relationship. The reasons for the loss are probed and the factors directly influencing the profitability are also studied. Profits are compared to sales, different expenditures, current assets, interest payables, share capital, etc.

3.**Use of special techniques and concepts.** Management accounting uses special techniques and concepts according to necessity to make accounting data more useful. The techniques usually used include financial planning and analyses, standard costing, budgetary control, marginal costing, project appraisal, control accounting, etc.

4. Taking important decisions.

It supplies necessary information to the management which may be useful for its decisions. The historical data is studied to see its possible impact on future decisions. The implications of various decisions are also taken into account.

5. Achieving of objectives.

Management accounting uses the accounting information in such a way that it helps in formatting plans and setting up objectives. Comparing actual performance with targeted figures will give an idea to the management about the performance of various departments. When there are deviations, corrective measures can be taken at once with the help of budgetary control and standard costing.

6.No fixed norms.

No specific rules are followed in management accounting as that of financial accounting. Though the tools are the same, their use differs from concern to concern. The deriving of conclusions also depends upon the intelligence of the management accountant. The presentation will be in the way which suits the concern most.

7.Increase in efficiency.

The purpose of using accounting information is to increase efficiency of the concern. The performance appraisal will enable the management to pin-point efficient and inefficient spots. Effort is made to take corrective measures so that efficiency is improved. The constant review will make the staff cost – conscious.

8. Supplies information and not decision.

Management accountant is only to guide and not to supply decisions. The data is to be used by the management for taking various decisions. "How the data to be utilized is will depend upon the caliber and efficiency of the management.

9.Concerned with forecasting.

The management accounting is concerned with the future. It helps the management in planning and forecasting. The historical information is used to plan future course of action. The information is supplied with the object to guide management for taking future decisions.

LIMITATIONS OF MANAGEMENT ACCOUNTING:

Management Accounting is in the process of development. Hence, it suffers form all the limitations of a new discipline. Some of these limitations are:

1.Limitations of Accounting Records:

Management accounting derives its information from financial accounting, cost accounting and other records. It is concerned with the rearrangement or modification of data. The correctness

or otherwise of the management accounting depends upon the correctness of these basic records. The limitations of these records are also the limitations of management accounting.

2.It is only a Tool:

Management accounting is not an alternate or substitute for management. It is a mere tool for management. Ultimate decisions are being taken by management and not by management accounting.

3.Heavy Cost of Installation:

The installation of management accounting system needs a very elaborate organization. This results in heavy investment which can be afforded only by big concerns.

4.Personal Bias:

The interpretation of financial information depends upon the capacity of interpreter as one has to make a personal judgment. Personal prejudices and bias affect the objectivity of decisions.

5.Psychological Resistance:

The installation of management accounting involves basic change in organization set up. New rules and regulations are also required to be framed which affect a number of personnel and hence there is a possibility of resistance form some or the other.

6.Evolutionary stage:

Management accounting is only in a developmental stage. Its concepts and conventions are not as exact and established as that of other branches of accounting. Therefore, its results depend to a very great extent upon the intelligent interpretation of the data of managerial use.

7.Provides only Data:

Management accounting provides data and not decisions. It only informs, not prescribes. This limitation should also be kept in mind while using the techniques of management accounting.

8.Broad-based Scope:

The scope of management accounting is wide and this creates many difficulties in the

implementations process. Management requires information from both accounting as well as nonaccounting sources. It leads to inexactness and subjectivity in the conclusion obtained through it.

M ANAGEM ENT ACCOUNTANT

Management Accountant is an officer who is entrusted with Management Accounting function of an organization. He plays a significant role in the decision making process of an organization. The organizational position of Management Accountant varies form concern to concern depending upon the pattern of management system. He may be an executive in some concern, while a member of Board of Directors in case of some other concern. However, he occupies a key position in the organization.

In large concerns, he is responsible for the installation, development and efficient functioning of the management accounting system. He designs the frame work of the financial and cost control reports that provide with the most useful data at the most appropriate time. The Management Accountant sometimes described as Chief Intelligence Officer because apart form top management, no one in the organization perhaps knows more about various functions of the organization than him. Tandon has explained the position of Management Accountant as follows:

"The management accountant is exactly like the spokes in a wheel, connecting the rim of the wheel and the hub receiving the information. He processes the information and then returns the processed information back to where it came from".

Role of Management Accountant

Management Accountant, otherwise called Controller, is considered to be a part of the management team since he has the responsibility for collecting vital information, both from within and outside the company. The functions of the controller have been laid down by the Controller Institute of America. These functions are:

1.To establish, coordinate and ad minister, as an integral part of management, an adequate plan for the control of operations. Such a plan would provide, to the extent required in the business cost standards, expense budgets, sales forecasts, profit planning, and programme for capital investment and financing, together with necessary procedures to effectuate the plan.

2.To compare performance with operating plan and standards and to report and interpret the results of operation to all levels of management, and to the owners of the business. This function includes the formulation and ad ministration of accounting policy and the compilations of statistical records and special reposts as required.

3.To consult withal segments of management responsible for policy or action conserving any phase of the operations of business as it relates to the attainment of objective, and the effectiveness of policies, organization strictures, procedures.

4.To administer tax policies and procedures.

5. To supervise and coordinate preparation of reports to Government agencies.

6. The assured fiscal protection for the assets of the business through adequate internal; control and proper insurance coverage.

7.To continuously appraise economic and social forces and government influences, and interpret their effect upon business.

Duties and Responsibilities of Management Accountant

The primary duty of Management Accountant is to help management in taking correct policy-decisions and improving the efficiency of operations. He performs a staff function and also has line authority over the accountants. If management accountant feels that a decision likely to be taken by the management based on the information tendered by him shall be detrimental to the interest of the concern, he should point out this fact to the concerned management, of course, with tact, patience, firmness and politeness. On the other hand, if the decision taken happens to be wrong one on account t of inaccuracy, biased and fabricated data furnished by the management accountant, he shall be held responsible for wrong decision taken by the management.

Controllers Institute of America has defined the following duties of Management Accountant or controller:

1. The installation and interpretation of all accounting records of the corporative.

2. The preparation and interpretation of the financial statements and reports of the corporation.

3.Continuous audit of all accounts and records of the corporation wherever located.

4. The compilation of costs of distribution.

5. The compilation of production costs.

6. The taking and costing of all physical inventories.

7. The preparation and filing of tax returns and to the supervision of all matters relating to taxes.

8. The preparation and interpretation of all statistical records and reports of the corporation.

9. The preparation as budget director, in conjunction with other officers and department heads, of an annual budget covering all activities of the corporation of submission to the Board of Directors prior to the beginning of the fiscal year. The authority of the Controller, with respect to the veto of commitments of expenditures not authorized by the budget shall, from time to time, be fixed by the board of Directors.

10. The ascertainment currently that the properties of the corporation are properly and adequately insured.

11. The initiation, preparation and issuance of standard practices relating to all accounting, matters and procedures and the co-ordination of system throughout the corporation including clerical and office methods, records, reports and procedures.

12. The maintenance of adequate records of authorized appropriations and the determination that all sums expended pursuant there into are properly accounted for.

13. The ascertainment currently that financial transactions covered by minutes of the Board of Directors and/ or the Executive committee are properly executed and recorded.

14. The maintenance of adequate records of all contracts and leases.

15. The approval for payment(and / or countersigning) of all cheques, promissory notes and other negotiable instruments of the corporation which have been signed by the treasurer or such other officers as shall have been authorized by the by=laws of the corporation or form time to time designated by the Board of Directors.

16. The examination of all warrants for the withdrawal of securities from the vaults of the

corporation and the determination that such withdrawals are made in conformity with the by-laws and /or regulations established from time by the Board of Directors.

17. The preparation or approval of the regulations or standard practices, required to assure compliance with orders of regulations issued by duly constituted governmental agencies.

Possible Questions

Part - B (5X8= 40)

- 1. What is management accounting? What are its advantages
- 2. Define Management Accounting. State any six functions of Management Accounting.
- 3. Explain Scope of management accounting
- 4. What are the objectives of Management Accounting
- 5. What is management accounting? How is it different from Financial Accounting?
- 6. Distinguish between Management Accounting and cost Accounting
- 7. Explain The Tools of Management Accounting.
- 8. Discuss the various steps required for installing management accounting system.
- 9. What are the roles of Management Accountant?
- **10.** What are the limitation of Management Accounting

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KARPAGAM ACADEMY OF HIGHER EDUCATION Management Accounting POSSIBLE QUESTIONS UNIT - I PART - A

S.NO	QUESTION	OPTION1	OPTION2	OPTION3	OPTION4	ANSWER
1	The chief objective of management accounting is to serve.	Public at large		Manageme nt	Government	Manageme nt
2	The term management accounting was first coined by the British team of accountants that visited the.	USA	China	India	Japan	USA
3	Management accounting involves	Recording of costs	Recording of transaction	Preparatio n of accounts	Analysis and interpretation of data	
4	Management accounting is also known as	Cost accounting	Financial accounting	Corporate accounting	Decision accounting.	Decision accounting
5	Management accounting functions are	Complementar y in nature	Contradictor y nature	Neutral in effect	None of the above	Compleme ntary in nature
6	Management accounting provides valuable services to management in performing.	Planning functions	Controlling functions	Co- ordinating functions	All managerial functions.	All managerial functions.
7	Management accounting is	An extension of financial accounting.	An extension of cost accounting.	A blend of these two and of financial manageme nt.	all the above	An extension of financial accounting
8	Management accounting is concerned with formulation of to meet enterprise objectives.	Plans	Cost	Both a and b	decision	Plans
9	Installation of management accounting is purely.	Compulsory	Optional	Both a and b	not necessary	Optional
10	The term of appointment of financial controller may be fixed by the	Board of Directors	Articles of association	Both a and b	Prospectus	Both a and b

	Financial accounting deals	Determination	Determinatio	Determinat	Determinatio	Determina
11	with	of costs	n of profits	ion of	n of	tion of
				prices	Expenses	profits
	The term management					
12	accountancy was first used	1910	1939	1950	1970	1950
	in					
	Preparation of financial	Sole trader	Partnership	Join stock	Hindu	Join stock
13	accounts is compulsory for	business	firm	companies	Undivided	companies
					Family	
	A financial statement is	Cost	Management	Financial	Accounting	Financial
14	outcome of					
	accounting					
15	Provision of accounting	Reporting	Budgeting	Planning	Controlling	Reporting
	information is known as					
16	is the oldest branch	Management	Cost	Financial	Corporate	Financial
	of accounting.	accounting	accounting		accounting.	accounting
	Management accounting also	Share holders	Creditors	Tax	All of the	All of the
	comprises the preparation of			authorities	above	above
17	financial reports for non-					
	management groups such as					
	Information conveyed by the	Reliable	Valuable to	Relevant	All of the	All of the
	management accountant to	Kellable	the recipient	Kelevalli	above	above
18	the different levels of		the recipient			a00vC
10	management groups should					
	be.					
<u> </u>	Management accounting and	Supplementary	Complement	Independe	Opposite to	Compleme
19	cost accounting are	to each other	ary to each	nt to each	each other	ntary to
			other	other		each other
	is also known as	Management	Cost	Financial	Corporate	Manageme
20	Management oriented	accounting	accounting		accounting	nt
	accounting.	U	U	0	e	accounting
<u> </u>	Is concerned with	Management	Cost	Financial	Corporate	Manageme
	accounting information	accounting	accounting		accounting	nt
21	which is useful to	2		0	2	accounting
	management in maximizing					
	profits or minimizing losses.					
	Is concern with	Forecasting	Supply	Increase in	Planning	Forecastin
22	future.	U	information	efficiency	U	g
						~

23	Provides information to the management and not decisions.	Forecasting	Supply information	Increase in efficiency	Receiving Information	Supply informatio n
24	Is basically concerned with "the problem of choice".	Forecasting	Supply information	Increase in efficiency	Receiving Information	Increase in efficiency
25	To makes accounting data more useful.	Techniques and concepts	Cause and effect analysis	No fixed norms	Assists management	Technique s and concepts
26	Attempts to examine the 'cause' and 'effect' of different variables.	Techniques and concepts	Cause and effect analysis	No fixed norms	Assist management	Cause and effect analysis
27	has no set of rules and formats like double entry system of book keeping.	Techniques and concepts	Cause and effect analysis	No fixed norms	Assist management.	No fixed norms
28	in several ways in its functions but does not replace it.	Cause and effect analysis	No fixed norms	Assist manageme nt	Achieving of objectives	Assist manageme nt
29	is the general accounting which relates to the recording of business transactions in the books of business transactions in the books of prime entry.	Financial accounting	Cost accounting	Manageme nt accounting	Budgeting.	Financial accounting
30	is the process and techniques of ascertaining costs.	Management accounting	Financial accounting	Cost accounting	Budgeting	Cost accounting
31	Means expressing the plans, policies and goals of the enterprise for a definite period in future.	Budgeting	Forecasting	Statistical methods	Inventory control	Budgeting
32	tools such as graphs, charts, diagrams, pictorial presentation, index number etc	Budgeting	Forecasting	statistical	inventory control	statistical
33	on the other hand, is a predication of what will happen, as a result of a given set of circumstances.	Budgeting	Forecasting	Statistical	Inventory control	Forecastin g

34	Includes control over inventory from the time it is acquired till its final disposal	Budgeting	Forecasting	Statistical	Inventory control	Inventory control
35	is important part of management accounting	Budgeting	Statistical	Inventory control	Interpretation of data	Interpretati on of data
36	May be sent monthly quarterly half yearly etc.	Report	Internal audit	Tax accounting	Methods and procedure	Report
37	Needs devising a system of internal control by establishing internal audit coverage for all operating units	Report	Internal audit	Tax accounting report		Internal audit
38	includes the computation of taxable income as per tax law filling of returns etc	Report	Internal audit	Tax accounting report	Internal audit	Tax accounting report
39	provides statistical data to the various departments of the organization	Report	Internal audit	Tax accounting	Methods and procedure	Methods and procedure
40	The primary objective of is to enable the management to maximize or minimize losses	Cost accounting	financial accounting	manageme nt accounting	Corporate Accounting	manageme nt accounting
41	is one of the primary function s of management	Planning	budgeting	Forecastin g	Controlling	Planning
42	The main objective of management accounting is to present information to the management	Cost	Financial	Manageme nt	Accounting	Financial

43	Management accounting makes process more modern and scientific by providing significant information relating to various alternatives in terms of cost and revenue	Forecasting	Planning	Decision making	Budgeting	Decision making
44	Management accounting is a useful advice of managerial	Planning	Control	Motivation	Forecasting	Control
45	Presents the different alternative plans before the management in a comparative manner		Motivating	Controllin g	Forecasting	Reporting
46	Increases the job satisfaction of employees and encourage them to look forward	Delegation	Motivation	Report	Directing	Delegation
47	provides tools which are helpful in co ordination the activities of different section or department	Planning	Forecasting	co- ordination	Budgeting	co- ordination
48	Increase the effectives of the organization and	Delegation	Motivation	Report	Directing	Motivation
49	Return on capital employed is one of the tools of	Financial accounting	Cost accounting	Corporate accounting	Management accounting	Manageme nt accounting
50	Budget are important means of	Motivation	Delegation	co- ordination	Directing	co- ordination
51	is a part of accounting	Management accounting	Financial accounting	cost accounting	corporate accounting	Manageme nt accounting
52	The in similar groups make the data more useful and understandable	Modification of data	Planning and forecasting	Financial analysis and interpretati on	Communicati on	Modificati on of data

	are essential for	Modification	Planning and	Communic	Decision	Planning
53	achieving business	of data	forecasting	ation	Making	and
	objectives					forecasting
	1	Motivation	Delegation	Co-	Interpretation	Interpretati
54	function of management			ordination		on
	accounting.					
	of data are considered		analysis and		co-ordination	-
55	as back bone of management	of data	interpretatio	ation		and
	accounting.		n			interpretati
						on
	Management accounting is	Motivation	Co-	Communic	Delegation	Communic
56	an important medium of		ordination	ation		ation
	Mere financial data and its	Planning	Forecasting	Controllin		Decision-
57	analysis and interpretation			g	making	making
	are not sufficient for					
	purposes					
	supplies analytical	financial	management		corporate	manageme
	information regarding	accounting	accounting	accounting	accounting	nt
58	various alternatives and the					accounting
	choice of management is					
	made easy.					
59		Co-ordination	Control	Motivation		Co-
	managerial activity.				making	ordination
	has more or less		cost	manageme	none of the	financial
60	1 5	accounting	accounting	nt	above	accounting
	statutory for every business.			accounting		

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UNIT – II

Financial Statements Analysis: Meaning – Nature – Objectives – Limitations – Tools Common Size Statement- Comparative Statement – Trend Analysis – Ratio Analysis – Meaning Objectives – Significance- Limitations – Classifications of Ratio – Short Term Solvency Ratio – Long Term Solvency Ratio – Activity Ratio – Profitability Ratio.

MEANING AND TYPES OF FINANCIAL STATEMENTS

A financial statement is an organized collection of data according to logical and consistent accounting procedures. Its purpose is to convey an understanding of some financial aspects of a business firm. It may show a position at a moment of time as in the case of a balance sheet, or may reveal a series of activities over a given period of time, as in the case of an Income Statement.

Thus, the term 'financial statements' generally refers to two basic statements: *(i)* the Income Statement and (ii) the Balance Sheet. A business may also prepare (iii) a Statement of Retained Earnings, and (iv) a Statement of Changes in

Financial Position in addition to the above two statements.

The meaning and significance of each of these statements is being explained below:

1.Income Statement

The Income statement (also termed as Profit and Loss Account) is generally considered to be the most useful of all financial statements. It explains what has

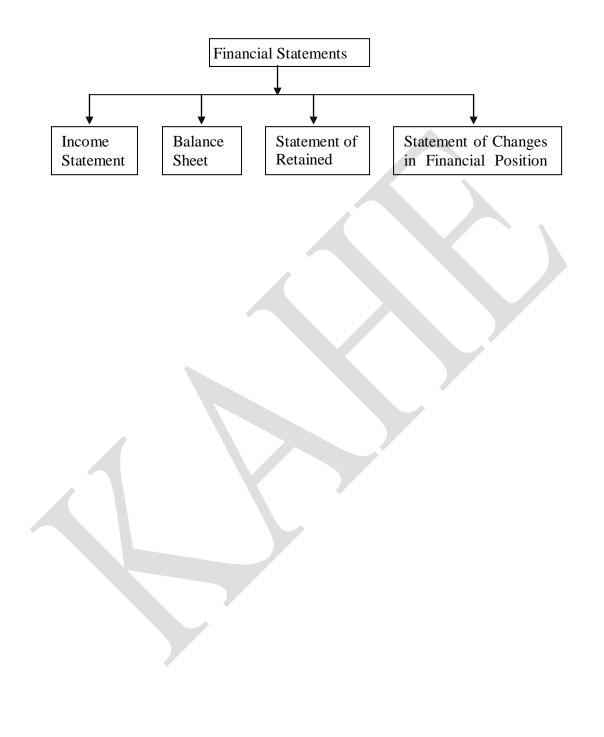
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happened to a business as a result of operations between two balance sheet dates. For this purpose it matches the revenues and costs incurred in the process of earning revenues and shows the net profit earned or less suffered during a particular period.

The nature of the 'Income' which is the focus of the Income Statement can be well understood if a business is taken as an organization that uses 'inputs' to'produce' output. The outputs are the goods and services that the business provides to its customers. The values of these outputs are the amounts paid by the customers for them. These amounts are called 'revenues' in accounting. The inputs are the economic resources used by the business in providing these goods and services. These are termed as 'expenses' in accounting.

2. Balance Sheet

It is a statement of financial position of a business at a specified moment of time. It represents all assets owned by the business at a particular moment of time and the claims of the owners at outsiders against those assets at that time. It is in a way a snapshot of the financial condition of the business at that time.

The important distinction between an income statement and a Balance Sheet is that the Income Statement is for a period while Balance Sheet is on a particular date. Income Statement is, therefore, a flow report, as contrasted with the Balance Sheet which is a static report. However both are complementary to each other.

3. Statement of Retained Earnings

The term retained earnings means the accumulated excess of earnings

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over losses and dividends. The balance shown by the Income Statement is transferred to the Balance Sheet through this statement, after making necessary appropriations. It is thus a connecting link between the Balance Sheet and the Income Statement. It is fundamentally a display of things that have caused the beginning of the period retained earnings balance to be changed into the one shown in the end- of the period balance sheet. The statement is also termed as Profit and Loss Appropriation Account in case of companies.

4. Statement of Changes in Financial Position (SCFP)

The Balance Sheet shows the financial condition of the business at a particular moment of time while the Income Statement discloses the results of operations of business over a period of time. However, for a better understanding of the affairs of the business, it is essential to identify the movement of working capital or cash in and out of the business. This information is available in the statement of changes in financial position of the business. The statement may emphasize any of the following aspects relating to change in financial position of the business:

- i. Change in working capital position. In such a case the statement is termed as SCFP (Working Capital basis) or popularly Funds Flow Statement.
- ii. Change in cash position. In such a case the statement is termed as SCFP (Cash basis) or popularly Cash Flow Statement.
- iii. **Change in overall financial position.** In such a case the statement is termed simply as Statement of Changes in Financial Position (SCFP).

ANALYSIS AND INTERPRETATION OF FINANCIAL STATEMENTS

Financial Statements are indicators of the two significant factors:

- i. Profitability, and
- ii. Financial soundness

Analysis and interpretation of financial statements, therefore, refers to such a treatment of the information contained in the Income Statement and the Balance Sheet so as to afford full diagnosis of the profitability and financial soundness of the business.

A distinction here can be made between the two terms - 'Analysis' and interpretation". The term' Analysis' means methodical classification of the data given in the financial statements. The figures given in the financial statements will not help one unless they are put in a simplified form. For example, all items relating to 'Current It Assets' are put at one place while all items relating to 'Current Liabilities' are put at another place. The term 'Interpretation' means explaining the meaning and significance of the data so simplified. However, both' Analysis' and 'Interpretation' are complementary to each other. Interpretation requires Analysis, while Analysis is useless without Interpretation. Most of the authors have used the term' Analysis' only to cover the meanings of both analysis and interpretation, since analysis involves interpretation. According to Myres, "Financial statement analysis is largely a study of the relationship among the various financial factors in a business as disclosed by a single set of statements and a study of the trend of these factors as shown in a series of statements." For the sake of convenience, we have also used the term 'Financial Statement Analysis' throughout the chapter to cover both analysis and

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interpretation. '

TYPES OF FINANCIAL ANALYSIS

Financial Analysis can be classified into different categories depending upon (*i*) the material used, and (*ii*) the *modus operandi* of analysis.

1. On the Basis of Material Used

According to this basis, financial analysis can be of two types:

(i) External Analysis.

This analysis is done by those who are outsiders for the business. The term outsiders include investors, credit agencies, government agencies and other creditors who have no access to the internal records of the company. These persons mainly depend upon the published financial statements. Their analysis serves only a limited purpose. The position of, these analysts has improved in recent times on account of increased governmental control over companies and governmental regulations requiring more detailed disclosure of information by the companies in their financial statements.

(ii) Internal Analysis.

This analysis is done by persons who have access to the books of account and other information related to the business. Such an analysis can, therefore, be done by executives and employees of the organization or by officers appointed for this purpose by the Government or the Court underpowers vested in them. The analysis is done depending upon the objective to be achieved through this analysis.

2. On the basis of modus operandi

According to this, financial analysis can also be of two types:

(i) Horizontal Analysis. In case of this type of analysis, financial statements for a number of years are reviewed and analyzed. The current year's figures are compared with the standard or base year. The analysis statement usually contains figures for two or more years and the changes are shown regarding each item from the base year usually in the fom1 of percentage. Such an analysis gives the management considerable insight into levels and areas of strength and weakness. Since this type of analysis is based on the data from year to year rather than on one date, it is also tern as 'Dynamic Analysis'.

(iii) Vertical Analysis. In case of this type of analysis a study is made of the quantitative relationship of the various items in the financial Statements on a particular date. For example, the ratios of different items of costs for a particular period may be calculated with the sales for that period. Such an analysis is useful in comparing the performance of several companies in the same group', or divisions or department in the same company. Since this analysis depends on the data for one period, this is not very conducive to a proper analysis of the company's financial position. It is also called 'Static Analysis' as it is frequently used for referring to ratios developed on one date or for one accounting period.

It is to be noted that both analyses-vertical and horizontal-can be done simultaneously also. For example, the Income Statement of a company for several years may be given. Horizontally it may show the change in different elements of cost and sales over a number of years. On the other hand, vertically it may show the percentage of each element of cost to sales.

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STEPS INVOLVED IN FINANCIAL STATEMENTS ANALYSIS

The analysis of the financial statements requires:

(i) Methodical classification of the data given in the financial statements. (ii)

Comparison of the various inter-connected figures with each other by different 'Tools of Financial Analysis'.

Each of the above steps has been explained in the following pages.

Methodical Classification

In order to have a meaningful analysis it is necessary that figures should be arranged properly. Usually instead the two-column (T form) statements, as ordinarily prepared the statements are prepared in single (vertical) column form "which should throw up significant figures by adding or subtracting". This also facilitates showing the figure of a number of firms or number of years side by side for comparison purposes.

TECHNIQUES OF FINANCIAL ANALYSIS

A financial analyst can adopt one or more of the following techniques/tools of financial analysis:

1. Comparative Financial Statements

Comparative financial statements are those statements which have been designed in a way so as to provide time perspective to the consideration of various elements of financial position embodied in such statements. In these statements figures for two or more periods are placed side by side to facilitate comparison.

Both the Income Statement and Balance Sheet can be prepared in the form of Comparative Financial Statements.

(i) Comparative Income Statement.

The Income Statement discloses Net Profit or Net Loss on account of operations. A Comparative Income Statement will show the absolute figures for two or more periods, the absolute change from one period to another and, if desired, the change in terms of percentages. Since the figures for two or more periods are shown side by side, the reader can quickly ascertain whether sales have increased or decreased, whether cost of sales has increased or decreased, etc. Thus, only a reading of data included in Comparative Income Statements will be helpful in deriving meaningful conclusions.

(ii) Comparative Balance Sheet.

Comparative Balance Sheet as on two or more different dates can be used for comparing assets and liabilities and finding out any increase or decrease in those items. Thus; while in a single Balance Sheet the emphasis is on present position, it is on change in the comparative Balance Sheet. Such a Balance Sheet is very useful in studying the trends in an enterprise. The preparation of comparative financial statements can be well understood with the help of the following example:

Example (i): From the following Profit and Loss Account and the Balance Sheet of Swadeshi Polytex Ltd. for the year ended 31st December, 1997 and 1998, you are required to prepare a Comparative Income Statement and a Comparative Balance Sheet.

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Profit and Loss Account

(In LAkhs of Rs.)

Particulars	1997	1998	Particulars	1997	1998
To Cost of Goods sold	600	750	By Net Sales	800	1,000
To Operating Expenses:					
Administration Expenses	20	20			
Selling expenses	30	40			
To Net Profit	150	190			
	<u>800</u>	<u>1,000</u>		<u>800</u>	<u>1,000</u>

BALANCE SHEET

As on 31 sf December

(In Lakhs of Rs)

Liabilities	1997	1998	Assets	1997	1998
Bills Payable	50	75	Cash	100	140
Sundry Creditors	150	200	Debtors	200	300
Tax Payable	100	150	Stock	200	300
6% Debentures	100	150	Land	100	100
6% Preference Capital	300	300	Building	300	270
Equity Capital	400	400	Plant	300	270
Reserves	200	245	Furniture	100	140
	<u>1,300</u>	<u>1,520</u>		<u>1,300</u>	<u>1,520</u>

Solution:

Prepared by P.Kalaivani, Asst Prof, Department of Commerce, KAHE Page 10/44

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Swadeshi Polytex Limited

COMPARATIVE INCOME STATEMENT

for the years ended 31st december 1997 and 1998 (In Lakhs of Rs.)

Particulars	1997			Percentage increase or decrease in 1998
Net Sales	800		+200	+25
Cost of Goods Sold	.600	750	-150	+25
Gross Profit	<u>200</u>	<u>250</u>	<u>+50</u>	+25
Operating Expenses:	-	-	-	
Administration Expenses	20	20	-	-
Selling Expenses	30	40	+10	+33.33
Total Operating Expenses	50	60	10	+20
Operating Profit	<u>150</u>	<u>190</u>	+40	+26.67

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Assets Current Assets: Cash Debtors	1997	1998	Absolute increase or decrease during 1998	Percentage increase(+) or decrease (-) during 1998
Stock	100	140	40	+40
Total Current Assets	200	300	100	+50
Fixed Assets:	200	300	100	+50
Land Building	500	740	240	+50
Plant Furniture				
Total Fixed Assets Total	100	100	-	-
Assets Liabilities &	300	270	-30	-10
	300	270	-30	-10
Capital: Current	100	140	+40	+40
Liabilities Bills Payable	800	780	-20	-2.5
Sundry Creditors	1,300	1,520	220	+17
Tax Payable				
Total Current Liabilities				
Long term Liabilities	50	75	+25	+50
	150	200	+50	+33.33
	100	150	+50	+50
	300	425	+125	41.66
	500	723	1123	11.00

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6% Debentures Total	100	150	+50	+50
Liabilities Capital &	400	575	+175	+43.75
Reserves				
6% Pref. Capital	300	300	-	-
Equity Capital	400	400	-	
Reserves	200	245	45	22.5
Total Shareholders' Funds	900	945	45	5
Total Liabilities and Capital	1,300	1,520	220	17

i.

Comparative Financial Statements can be prepared for more than two periods or more than two dates. However, it becomes very cumbersome to study the trend with more than two period"s data. Trend percentages are more useful in such cases.

The American Institute of Certified Public Accountants has explained the utility of repairing the Comparative Financial Statements as follows:

The presentation of comparative financial statements is annual and other reports enhances the usefulness of such reports and brings out more clearly the nature and trend of rent changes affecting the enterprise. Such presentation emphasizes the fact that statement for a series of periods is far more significant than those of a single period and that the accounts of one period are but an installment of what is essentially a continuous history. In anyone year, it is ordinarily desired that the

Balance Sheet, the Income Statement and the Surplus Statement be given for one or more preceding years as well as for the current year."

The utility of preparing the Comparative Financial Statements has also been realized in our country. The Companies Act, 1956, provides that companies should give figures for different items for the previous period, together with Current period figures in their Profit and loss Account and Balance Sheet.

2. Common-size Financial Statements

Common-size Financial Statements are those in which figures reported are converted into percentages to some common base. In the Income Statement the sale figure is assumed to be 100 and all figures are expressed as a percentage of this total.

Example (ii): On the basis of data given in example (i), prepare a Common-size Income statement and Common Size Balance Sheet of Swadeshi Polytex Ltd., for the years ended 31st March, 1997 and 1998.

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Swadeshi Polytex Limited

COMPARATIVE BALANCE SHEET

(As on 31st december 1997, 1998) (Figures in lakhs of rupees)

Particulars	1997	1998
Net Sales	100	100
Cost of Goods Sold	75	75
Gross Profit	25	25
Opening Expenses:		
Administration Expenses	2.50	2
Selling Expenses	3.75	4
Total Opening Expenses	6.25	6
Operating Profit	18.75	19

Interpretation: The above statement shows that though in absolute terms, the cost of goods sold has gone up, the percentage of its cost to sales remains constant at 75%. This is the reason why the Gross Profit continues at 25% of the sales. Similarly, in absolute terms the amount 01 administration expenses remains the same but as a percentage to sales it has come down by 5%. Selling expenses have increased by 0.25%. This all leads to net increase in net profit of 0.25% (*i.e.* from 18.75% to 19%).

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COURSE CODE: 15CMU601 UNIT: II(FINANCIAL STATEMENTS) BATCH-2015-2018

Swadeshi Polytex Limited

COMPARATIVE BALANCE SHEET

As on 31st december 1997, 1998 (Figures in lakhs of rupees)

Particulars 1997 1998 % % 100 100 Assets Current Assets: 7.70 Cash 9.21 Debtors 15.38 19.74 Stock 15.38 19.74 **Total Current Assets** 38.46 48.69 Assets: Fixed 23.07 17.76 Building 17.76 Plant 23.07 9.21 Furniture 7.70 7.70 Land 6.68 Total Fixed Assets 61.54 51.41 **Total Assets** 100 100

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Current Liabilities		
Bills Payable	3.84	4.93
Sundry Creditors	11.54	13.16
Taxes Payable	7.69	9.96
Total Current Liabilities	23.07	27.95
Long Term Liabilities		
6% Debentures	7.69	9.86
Capital & Reserves:		
6% Preference Share Capital	23.10	19.72
Equity Share Capital	30.76	26.32
Reserves	15.38	16.15
Total Shareholders Funds	69.24	<u>62.19</u>
Total Liabilities and Capital	100	100

Interpretation: The percentage of current assets to total assets was 38.46 in 1997. It has gone up to 48.69 in 1998. Similarly the percentage of current liabilities to total liabilities (including capital) has also gone up from 23.07 in 1997 to 27.95 in 1998. Thus, the proportion of current assets has increased by a higher percentage (about 10) as compared to increase in the proportion of current liabilities (about 5). This has improved the working capital position of the Company. There has been a slight deterioration in the debt-equity ratio though it continues toil very sound. The proportion of shareholder's funds in the total liabilities has come down from 69.24% to 62.19% while that of the

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debenture-holders has gone up from 7.69% to 9.86%.

Comparative Utility of Common-size Financial Statements: The comparative common size financial statements show the percentage of each item to the total in each period but not variations in respective items from period to period. In other words common-size financial statements when read horizontally do not give information about the trend of individual items but the trend of their relationship to total. Observation of these trends is not very useful because there are no definite norms for the proportion of each item to total. For example, if it is established that inventory should be 30% of total assets, the computation of various ratios to total assets would be very useful. But since there are no such established standard proportions, calculation of percentages of different items of assets or liabilities to total assets or total liabilities is not of much use. On account of this reason common size financial statements are not much useful for financial analysis. However, common-size financial statements are useful for studying the comparative financial position of two or more businesses. However, to make such comparison really meaningful, it is necessary that the financial Instatements of all such companies should be prepared on the same pattern, e.g., all the companies should be more or less of the same age, they should be following the same accounting practices, the method of depreciation on fixed assets should be the same.

3. Trend Percentages

Trend percentages are immensely helpful in making a comparative study of the financial statements for several years. The method of calculating trend percentages involves the calculation of percentage relationship that each item bears to the same item in the base year. Any year may be taken as the base year. It

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is usually the earliest year. Any intervening year may also be taken as the base year. Each item of base year taken as 100 and on that basis the percentages for each of the items of each of the *fears* is calculated. These percentages can also be taken as Index Numbers showing relative changes in the financial data resulting with the passage of time.

The method of trend percentages is a useful analytical device for the Management since by substituting percentages for large amounts; the brevity and readability are achieved. However, trend percentages are not calculated for all of the items in the financial statements. They are usually calculated only for major items since the purpose is to highlight important changes.

While calculating trend percentages, care should be taken regarding the following matters:

- 1. The accounting principles and practices followed should be constant throughout the period for which analysis is made. In the absence of such consistency, the comparability will be adversely affected.
- 2. The base year should be carefully selected. It should be a normal year and be representative of the items shown in the statement.
- 3. Trend percentages should be calculated only for items having logical relationship with one another.
- 4. Trend percentages should be studied after considering the absolute figures on which they are based; otherwise, they may give misleading results. For example, one expense .may increase from Rs. 100 to Rs. 200 while the other expense may

increase from Rs. 10,000 to Rs. 15,000. In the first case trend percentage will show 100% increase while in the second case it will show 50% increase. This is misleading because in the first case the change though 100% is not at all significant in real terms as compared to the other. Similarly, unnecessary doubts may be created when the trend percentages show 100% increase in debt while only 50% increase in equity. This doubt can be removed if absolute figures are seen, *e.g.*, the amount of debt may increase from Rs. 20,000 to Rs. 40,000 while that of equity from Rs. 1,00,000 to Rs. 1,50,000.

5. The figures for the current year should also be adjusted in the light of price level changes as compared to the base year, before calculating the trend percentages

In case this is not done, the trend percentages may make the whole comparison meaningless. For example, if prices in the year 1998 have increased by 100% as compared to 1997, the increase in sales in 1998 by 60% as compared to 1997 will give misleading results. Figures of 1998 must be adjusted on account of rise in prices before calculating the trend percentages.

Example (iii): From the following data relating to the assets side of the Balance Sheet of Kamdhenu Ltd., for the period 31st Dec., 1995 to 31st December, 1998, you are required to calculate the trend percentage taking 1995 as the base year. (Rupees in thousands)

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Assets	1995	1996	1997	1998
Cash	100	120	80	140
Debtors	200	250	325	400
Stock-in-trade	300	400	350	500
Other Current Assets	50	75	125	150
Land	400	500	500	500
Building	800	1,000	1,200	1,500
Plant	<u>1,000</u>	<u>1,000</u>	<u>1,200</u>	<u>1,500</u>
	<u>2,850</u>	<u>3,345</u>	<u>3,780</u>	<u>4,690</u>

Solution

COMPARATIVE BALANCE SHEET

As on december 31, 1995-96

Assets	December 31			Trend Percentage				
	(]	Rs. in th	ousand	s)	Base year 1995			5
	1995	1996	1997	1998	1995	1996	1997	1998
Current Assets:								
Cash	100	120	80	140	100	120	80	140
Debtors	200	250	325	400	100	125	163	200
Stock-in-trade	300	400	350	500	100	133	117	167
Other Current Assets	50	75	125	150	100	150	250	300

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Total Current Assets	650	845	880	1,190	100	129	135	183
Fixed Assets								
Land	400	500	500	500	100	125	125	125
Building	800	1,000	1,200	1,500	100	125	150	175
Plant	1,000	1,000	1,200	1,500	100	100	120	150
Total Fixed	2,200	2,500	2,900	3,500	100	114	132	159
Assets								

4. Funds Flow Analysis

Funds flow analysis has become an important tool in the analytical kit of financial analysts, credit granting institutions and financial managers. This is because the Balance Sheet of a business reveals its financial status at a particular point of time. It does not sharply focus those major financial transactions which have been behind the Balance Sheet changes. For example, if a loan of Rs.2, 00,000 was raised and pail during the accounting year, the balance sheet will not depict this transaction However, a financial analyst must know the purpose for Which the loan was utilized and the source from which it was obtained. This will help him in making a better estimate about the company's financial position and policies.

5. Cost-Volume-Profit Analysis

Cost-Volume-Profit Analysis is an important tool of profit planning. It studies the relationship between cost, volume of production, sales and profit. Of course, it is not strictly a technique used for analysis of financial statements. However, it is an

important tool for the management for decision-making since the data is provided by both cost and financial records. It tells the volume of sales at which firm will break-even, the effect on profit on 'account of variation in output, selling price and cost, and finally, the quantity to be produced and sold to reach the, target profit level.

6. Ratio Analysis

This is the most important tool available to financial analysts for their work. An accounting ratio shows the relationship in mathematical terms between two interrelated accounting figures. The figures have to be interrelated (*e.g.*, Gross Profit and Sales, Current Assets and Current Liabilities), because no useful purpose will be served if ratios are calculated between two figures which are not at all related to each other, *e.g.*, sales and discount on issue of debentures.

LIMITATIONS OF FINANCIAL ANALYSIS

Financial analysis is a powerful mechanism which helps in ascertaining the strengths and nesses in the operations and financial position of an enterprise. However, this analysis is subject to certain limitations. Most of these limitations are because of the limitations of the financial statements themselves. These limitations are as follows:

1. Financial Analysis is only a Means

Financial analysis is a means to an end and not the end itself. The analysis should be used as a starting point and the conclusion should be drawn not in isolation, but keeping view the overall picture and the prevailing economic and political situation.

2. Ignores Price Level Changes

Financial statements are normally prepared on the concept of historical costs. They do not reflect values in terms of current costs. Thus, the financial analysis based on such financial statements or accounting figures would not portray the effects of price level changes over the period.

3. Financial Statements are Essentially Interim Reports

The profit shown by Profit and Loss Account and the financial position as depicted by the Balance Sheet is not exact. The exact position can be known only when the business is closed down. Again, the existence of contingent liabilities and deferred revenue expenditure make them more imprecise.

4. Accounting Concepts and Conventions

Financial statements are prepared on the basis of certain accounting concept and conventions. On account of this reason the financial position as disclosed by statements may not be realistic. For' example, fixed assets in the balance sheet, shown on the basis of going concern concept. This means that value placed on& assets may not be the same which may be realized on their sale. On account convention of conservatism the income statement may not disclose true income of the business since probable losses are considered while probable incomes are ignored.

5. Influence of Personal Judgment

Many items are left to the personal judgment of the accountant. For example, the method of depreciation, mode of amortization of fixed assets, treatment of deferred revenue expenditure - all depend on the personal judgment of the

accountant. The soundness of such judgment will necessarily depend upon his competence and integrity. However convention of consistency acts as a controlling factor on making indiscreet personal judgments.

6. Disclose only Monetary Facts

Financial statements do not depict those facts which cannot be expressed in terms of money. For example, development of a team of loyal and efficient workers, enlightened management, the reputation and prestige of management with the public are matters which are of considerable importance for the business, but they are nowhere depicted by financial statements.

RATIO ANALYSIS

Ratio Analysis is a very important tool of financial analysis. It is the process of establishing a significant relationship between the items of financial statements to provide a meaningful understanding of the performance and financial position of a firm.

In view of the requirements of various users (e.g., Short-term Creditors, Long- term Creditors, Management, Investors) of the ratios, one may classify the ratios into the following four groups:

Liquidity Ratios, Solvency Ratios, Activity Ratios and Profitability Ratios

Liquidity Ratios

These ratios measure the concern's ability to meet short-term obligations as and when they become due. These ratios show the short-term financial solvency of the concern. Usually the following two ratios are calculated for this purpose:

1. Current Ratio and 2. Quick Ratio

1. Current Ratio

(a) Meaning: This ratio establishes a relationship between current assets and current liabilities.

(b) Objective: The objective of computing this ratio is to measure the ability of the firm to meet its short-term obligations and to reflect the short-term financial strength / solvency of a firm. In other words, the objective is to measure the safety margin available for short-term creditors.

(c) Components: There are two components of this ratio which are a under:

(i) **Current Assets** which mean the assets which are held for their conversion into cash within a year and include the following:

Cash Balance	Bank Balances
Marketable Securities	Debtors (less Provision)
Bills Receivable (less Provisions)	Stock of all types, viz., Raw- Materials
Prepaid Expenses	Work-in-progress, Finished Goods
Incomes accrued but not due	Short-term Loans and Advances
Advance Payment of tax	(Debit Balances)
Tax reduced at source (Debit Balance)	Incomes due but not received

(ii) **Current Liabilities** which mean the liabilities which are expected to be matured within a year and include the following:

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Creditors for Goods	Creditors for Expenses
Bills Payable	Bank Overdraft
Short-term Loans and Advances	Income received-in-advance
Provision for Tax	Unclaimed dividend

d) Computation: This ratio is computed by dividing the current assets by the current liabilities. This ratio is usually expressed as a pure ratio e.g. 2 : I. In the form of a formula, this ratio may be expressed as under:

Current Assets

Current Ratio =

Current Liabilities

(e) Interpretation: It indicates rupees of current assets available for each rupee of current liability, Higher the ratio, greater the margin of safety for short-term creditors and vice-versa. However, too high / too low ratio calls for further investigation since the too high ratio may indicate the presence of idle funds with the firm or the absence of investment opportunities with the firm and too low ratio may indicate the over trading/under capitalization if the capital turnover ratio is high.

Traditionally, a current ratio of 2: 1 is considered to be a satisfactory ratio. On the basis of this traditional rule, if the current ratio is 2 or more, it means the firm is adequately liquid and has the ability to meet its current obligations but if the current ratio is less than 2, it means the firm has difficulty in meeting its

current obligations. The logic behind this rule is that even if the value of current assets becomes half, the firm can still meet its short-term obligations.

However, the traditional standard of 2: I should not be used blindly since there may be firms having current ratio of less than 2, which are working efficiently and meeting their short-term obligations as and when they become due while the other firms having current ratio of more than 2, may not be able to meet their current obligations in time. This is so because the current ratio measures the quantity of current assets and not their quality. Current assets may consist of doubtful and slow paying debtors and slow moving and obsolete stock of goods. That is why, it can be said that current ratio is no doubt a quick measurement of a firm's liquidity but it is crude as well.

f) Precaution: While computing and using the current ratio, it must be ensured (a) that the quality of both receivables (debtors and bills receivable) and inventory has been carefully assessed and (b) that all current assets and current liabilities have been properly valued.

Example (iv): The Balance Sheet of Tulsian Ltd. as at 31 st March 19X1 is as under:

Liabilities	Rs.	Assets	Rs.
Equity Share Capital	1,00,000	Land & Building	6,00,000
18% Pref. Share capital	1,00,000	Plant & Machinery	5,00,000
Reserves	60,000	Furniture & Fixtures	. 1.00,000
Profit & Loss A/c	2,40,000		12,00,000
	8,00,000	Less: Depreciation	2 00 000

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15% Debentures	40,000		10,00,000
Trade Creditors	30,000	Trade Investments (long-term)	1,00,000
Bills Payable	20,000	Stock	95,000
Outstanding Expenses	10,000	Debtors 3,40,000	
Bank overdraft	2,40,000	Less: Provision 30,000	3,10,000
Provision for Tax		Marketable Securities	10,000
		Cash	10,000
		Bills receivables	10,000
		Prepaid Expenses	5,000
		Preliminary Expenses	60,000
		Underwriting Commission	40,000
	16,40,000		16,40,000

Net Sales for the year 19XI-19X2 amounted to Rs. 20.00.000. Calculate Current Ratio.

Solution

Current Assets = Stock + Debtors - Provision on Debtors + Marketable Securities

+ Cash + B/R + Prepaid Expenses

= Rs. 95,000 + Rs. 3,40,000 - Rs. 30,000 + Rs. 10,000 + R

Current Liabilities= Trade Creditors + B/P + O/s Exp + Bank O/D + Provision forTax = Rs. 40,000 + Rs. 30,000 + Rs. 20,000 + Rs. 10,000 + Rs. 2,40,000

= Rs. 3,40,000

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	Current Assets		Rs. 4,40,000	
Current Ratio =	=	:		= 22:17
	Current Liabilities		Rs.3,40, 000	

2. Quick Ratio

(a) Meaning: This ratio establishes a: relationship between quick assets and current liabilities.

(b) **Objective:** The objective of computing this ratio is to measure the ability of the firm to meet its short-term obligations as and when due without relying upon the realization of stock.

(c) Components There are two components of this ratio which are as under:

(i) Quick assets: which mean those current assets which can be converted into cash immediately or at a short notice without a loss of value and include the following:

Cash Balances	Bank Balances	
Marketable Securities	Debtors	
Bills Receivable	Short-term Loans and Advances	
$(\mathbf{I}) = (\mathbf{I} + \mathbf{I}) \mathbf{I} + (\mathbf{I} + \mathbf{I}) \mathbf{I} $		

(ii) Current liabilities: (as explained earlier in Current Ratio)

(d) Computation This ratio is computed by dividing the quick assets by the current liabilities. This ratio is usually expressed as a pure ratio e.g., 1: 1. In the form of a formula, this ratio may be expressed as under:

Quick Ratio =

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Quick Assts

Current Liabilities

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(e) Interpretation: It indicates rupees of quick assets available for each rupee of current liability. Traditionally, a quick ratio of 1:1 is considered to be a satisfactory ratio. However, this traditional rule should not be used blindly since a firm having a quick ratio of more than 1, may not be meeting its short-term obligations in time if its current assets consist of doubtful and slow paying debtors while a firm having a quick ratio of less than 1, may be meeting its short-term obligations in time because of its very efficient inventory management.

(f) **Precaution:** While computing and using the quick ratio, it must be ensured, (a) that the quality of the receivables (debtors and bills receivable) has been carefully assessed and (b) that all quick assets and current liabilities have been properly valued.

Example (v): Current Assets Rs.2,00,000, Inventory Rs.40,000, Working Capital Rs.1, 20 000. Calculate the Quick Ratio.

Solution: Current Liabilities = Current Assets - Working Capital = Rs. 2,00,000 - Rs. 1,20,000 = Rs. 80,000

Quick Assets = Current Assets - Inventory

= Rs. 2,00,000 - Rs. 40,000 = Rs. 1,60,000

Quick Assets RS.1,60,000

Quick Ratio

Current Liabilities Rs. 80000

SOLVENCY RATIOS

= 2:1

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These ratios show the long-term financial solvency and measure the enterprise's ability to pay the interest regularly and to repay the principal (i.e. capital amount) on maturity or in pre-determined installments at due dates. Usually, the following ratios are calculated to judge the long-term financial solvency of the concern.

Debt-Equity Ratio

(a) Meaning: This ratio establishes a relationship between long-term debts and share-holders' funds.

(b) **Objective:** The objective of computing this ratio is to measure the relative proportion of debt and equity in financing the assets of a firm.

(c) Components: There are two components of this ratio, which are as under:

- (i) Long-term Debts, which mean long-term loans (whether secured or unsecured (e.g., Debentures, bonds, loans from financial institutions).
- (ii) Shareholders' Funds which mean equity share capital plus preference share capital plus reserves and surplus minus fictitious assets (e.g., preliminary expenses).

(d) **Computation:** This ratio is computed by dividing the long-term debts by the shareholders' funds. This ratio is usually expressed as a pure ratio e.g., 2: 1. In the form of a formula, this ratio may be expressed as under:

Long - term Debts

Debt-Equity Ratio =

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Shareholders 'Funds

(e) Interpretation: It indicates the margin of safety to long-term creditors. A low debt equities ratio implies the use of more equity than debt which means a larger safety margin for creditors since owner's equity is treated as a margin of safety by creditors and vice versa.

Example (vi): Capital Employed Rs. 24,00,000, Long-term Debt Rs. 16,00,000 Calculate the Debt-Equity Ratio.

Solution: Shareholders' 'Funds = Capital Employed - Long-ter

= Rs. 24,00,000 - Rs. 16,00,000 = Rs. 8,00,000

Long-term Debts

Rs. 16,00,000

= 3:1

Debt-Equity Ratio = = = = = 2 :1 Shareholders ' Funds Rs 8,00,00 Example (vii): Capital Employed Rs. 8,00,000, Shareholders' Funds Rs. 2,00,000 Calculate the Debt Equity Ratio.

Solution: Long-term Debt = Capital Employed - Shareholders' Funds

= Rs. 8,00,000 - Rs. 2,00,000 = Rs. 6,00,000

Long-term Debts - Rs. 6,00,000

Debt equity Ratio =

Shareholders Funds Rs. 2,00,000

Debt Total Funds Ratio

This ratio is a variation of the debt-equity ratio and gives the similar indications as the debt-equity ratio. In this ratio, the outside long-term liabilities are related to

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the total capitalization of the firm and not merely to the shareholders' funds. This ratio is computed by dividing the long-term debt by the capital employed. In the form of a formula, this ratio may be expressed as under:

Debt-Total Funds Ratio = Capital Employed Iong-term Debt

Where, the Capital Employed comprises the long-term debt and the shareholders' funds.

Interest Coverage Ratio (or Time-interest Earned Ratio or Debt-Service Ratio)

(a) Meaning: This ratio establishes a relationship between net profits before interest and taxes and interest on long-term debt.

(b) Objective: The objective of computing this ratio is to measure the debtservicing capacity of a firm so far as fixed interest on long-term debt is concerned.

(c) Components: There are two components of this ratio which are as under: (i)

Net profits before interest and taxes;

(ii) Interest on long-term debts.

(d) Computation: This ratio is computed by dividing the net profits before interest and taxes by interest on long-term debt. This ratio is usually expressed as 'x' number of times. In the form of a formula, this ratio may be expressed as under:

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Net Profit before interest and taxes

Interest Coverage Ratio =

Interest on Long-term debt

(e) Interpretation: Interest coverage ratio shows the number of times the interest charges are covered by the profits out of which they will be paid. It indicates the limit beyond which the ability of the firm to service its debt would be adversely affected. For instance, an interest coverage of five times would imply that even if the firm's net profits before interest and tax were to decline to 20% of the present level, the firm will still be able to pay interest out of profits. Higher the ratio, greater the firm's ability to pay interest but very high ratio may imply lesser use of debt and/or very efficient operations.

Example (viii): Net Profit before Interest and Tax Rs. 3,20,000, Interest on long term debt Rs. 40,000. Calculate Interest Coverage Ratio.

Solution:

Net Profit before Interest and Taxes

Interest Coverage Ratio =

Interest on Long-term Debt

Rs.3,20,000

= 8 Times

Rs.40,000 8 Times

ACTIVITY RATIOS

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These ratios measure the effectiveness with which a firm uses its available resources. These ratios are also called 'Turnover Ratios' since they indicate the speed with which the resources are being turned (or converted) into sales.

Usually the following turnover ratios are calculated:

- I. Capital Turnover Ratio II. Fixed Assets Turnover Ratio,
- III. Net Working Capital Turnover Ratio IV. Stock Turnover Ratio
- V. Debtors Turnover Ratio. VI. Creditors Turnover Ratio.

Capital Turnover Ratio

(a) Meaning: This ratio establishes a relationship between net sales and capital employed.

(b) **Objective:** The objective of computing this ratio is to determine the efficiency with which the capital employed is utilized.

(c) Components: There are two components of this ratio which are as under: (i)

Net Sales which mean gross sales minus sales returns; and

(ii) Capital Employed which means Long-term Debt plus Shareholders' Funds.

(d) **Computation:** This ratio is computed by dividing the net sales by the capital employed. This ratio is usually expressed as 'x' number of times. In the form of a formula this ratio may be expressed as under:

Net Sales

Capital Turnover Ratio =

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Capital Employed

(e) **Interpretation:** It indicates the firm's ability to generate sales per rupee of capital employed. In general, the higher the ratio the more efficient the management and utilization of capital employed. A too high ratio may indicate the situation of an over-trading (or under. capitalization) if current ratio is lower than that required reasonably and vice versa.

Fixed Assets Turnover Ratio

(a) Meaning: This ratio establishes a relationship between net sales and fixed assets.

(b) Objective: The objective of computing this ratio is to determine the

efficiency with which the fixed assets are utilized.

(c) Components: There are two components of this ratio which are as under: (i)

Net Sales which means gross sales minus sales returns;

(ii) Net Fixed (operating) Assets which mean gross fixed assets minus depreciation thereon.

(d) **Computation** This ratio is computed by dividing the net sales by the net fixed assets. This ratio is usually expressed as 'x' number of times. In the form of a formula, this ratio may be expressed as under:

Net Sales

Fixed Assets Turnover Ratio =

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Net Fixed Assets

(e) Interpretation: It indicates the firm's ability to generate sales per rupee of investment in fixed assets. In general, higher the ratio, the more efficient the management and utilization of fixed assets, and vice versa. It may be noted that there is no direct relationship between sales and fixed assets since the sales are influenced by other factors as well (e.g., quality of product, delivery terms, credit terms, after sales service, advertisement and publicities.)

Example (ix): Fixed Assets (at cost) Rs. 7,00,000, Accumulated Depreciation till date Rs. 1,00,000, Credit Sales Rs. 17,00,000, Cash Sales Rs., 1,50,000, Sales Returns Rs. 50,000. Calculate Fixed Assets Turnover Ratio.

Solution: Net Sales = Cash Sales + Credit Sales - Sales Returns

= Rs. 1,50,000 + Rs. 17,00,000 - Rs. 50,000 = Rs. 18,00,000

Net Fixed Assets = Fixed Assets (at cost) - Depreciation

= Rs. 7,00,000 - Rs. 1,00,000 = Rs. 6,00,000

Net Sales

Rs. 18,00,000.

Fixed Assets Turnover Ratio = = = 3 Times Net Fixed Assets Rs. 600000

Example (**x**): Capital Employed Rs. 2,00,000, Working Capital Rs. 40,000, Cost of goods sold Rs. 6,40,000, Gross Profit Rs. 1,60,000. Calculate Fixed Assets Turnover Ratio.

Solution: Net Sales = Cost of Goods Sold + Gross Profit

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= Rs. 6,40,000 + Rs. 1,60,000 = Rs. 8,00,000

Net fixed Assets = Capital Employed - Working Capital

= Rs. 2,00,000 - Rs. 40,000 = Rs. 1,60,000

Fixed Assets Turnover Ratio = $\frac{\text{Net Sales}}{\text{Net fixed Asset}} = \frac{\text{Rs. 8,00,000}}{\text{Rs. 1,60,000}} = 5 \text{ Times}$

Working Capital Turnover Ratio

(a) Meaning: This ratio establishes a relationship between net sales and working capital.

(b) **Objective:** The objective of computing this ratio is to determine the efficiency with which the working capital is utilized.

(c) Components: There are two components of this ratio which are as under: (i)

Net Sales which mean gross sales minus sales returns; and

(ii) Working Capital which means current assets minus current liabilities.

(d) **Computation:** This ratio is computed by dividing the net sales by the working i capital. This ratio is usually expressed as 'x' number of times. In the form of a formula, this ratio may be expressed as under:

Net Sales

Working Capital Turnover Ratio =

Working Capital

Prepared by P.Kalaivani, Asst Prof, Department of Commerce, KAHE Page 41/44

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(e) **Interpretation:** It indicates the firm's ability to generate sales per rupee of working capital. In general, higher the ratio, the more efficient the management and utilization of, working capital and vice versa.

Example (xi): Current Assets Rs. 6,00,000, Current Liabilities Rs. 1,20,000, Credit Sales Rs. 12,00,000, Cash Sales Rs. 2,60,000, Sales Returns Rs. 20,000. Calculate Working Capital Turnover Ratio.

Solution:

Net Sales = Cash Sales + Credit Sales - Sales Returns

= Rs. 2,60,000 + Rs. 12,00,000 - Rs. 20,000 = Rs. 14,40,000

Working Capital = Current Assets - Current Liabilities

= Rs. 6,00,000 - Rs. 1,20,000 = Rs, 4,80,000

	Net Sales		Rs. 14,40,000	
Working Capital Turnover Ratio =		=		=3 Times
	Net Sales		Rs. 14,40,000	
Working Capital Turnover Ratio =	Working Capit	= al	Rs. 4,80,000	=3 Times

Stock Turnover Ratio

(a) Meaning: This ratio establishes a relationship between costs of goods sold and aver age inventory.

(b) **Objective:** The objective of computing this ratio is to determine the efficiency with which the inventory is utilized.

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(c) Components: There are two components of this ratio which are as under: (i)

Cost of Goods Sold, this is calculated as under.

Cost of Goods Sold = Opening Inventory + Net Purchases + Direct Expenses - Closing Inventory = Net Sales - Gross Profit

(ii) Average Inventory which is calculated as under:

Average Inventory = (Opening Inventory plus Closing Inventory)/2

(d) **Computation:** This ratio is computed by dividing the cost of goods sold by the average inventory. This ratio is usually expressed as 'x' number of times. In the form of a formula, this ratio may be expressed as under: -

Cost of Goods Sold

Stock Turnover Ratio =

Average Inventory

(e) Interpretation: It indicates the speed with which the inventory is converted into sales. In general, a high ratio indicates efficient performance since an improvement in the ratio shows that either the same volume of sales has been maintained with a lower investment in stocks, or the volume of sales has increased without any increase in the amount of stocks. However, too high ratio and too low ratio calls for further investigation. A too high ratio may be the result of a very low inventory levels which may result in frequent stock-outs and thus the firm may incur high stock-out costs. On the other hand, a too low ratio may be the result of excessive inventory levels, slow-moving or obsolete inventory and thus, the firm may incur high carrying costs. Thus, a firm should

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have neither a very high nor a very low stock turnover ratio, it should have satisfactory level. To judge whether the ratio is satisfactory or not, it should be compared with its own past ratios or with the ratio of similar firms in the same industry or with industry average.

(f) Stock Velocity- This velocity indicates the period for which sales can be generated with the help of an average stock maintained and is usually expressed in days. This velocity may be calculated as follows:

Average stock

Stock Velocity=

Or

Average Daily cost of Goods Sold

12 months /52 weeks /365 days

Stock Turnover Ratio

KARPAGAM ACADEMY OF HIGHER EDUCATION Management Accounting POSSIBLE QUESTIONS UNIT - II PART - A

-	POSSIBLE QUESTIONS UNIT - II PART - A							
S.NO	QUESTION		OPTION2		OPTION4	ANSWER		
1	The indicated quotient of two mathematical expression is known as	Ratio	Analysis	Working capital	Statements	Ratio		
2	Current ratio is an example for ratio.	Balance sheet	Income statement	Inter statement	Intra Statement	Balance sheet		
3	ratio is an example for long term solvency ratio.	Gross profit	Dealt equity	Net profit	Price earning	Dealt equity		
4	The relationship between current assets and current liabilities is known as ratio.	Gross profit	Net profit	current	Stock turnover	current		
5	The ideal current ratio is	2:1	3:1	4:1	3:2	2:1		
6	Liquid ratio is also known as ratio.	current	Acid test	Velocity	Quick	Acid test		
7	Operating cost net sales X 100=	Gross profit ratio	Net profit ratio	Operatin g ratio	Current ratio	Operating ratio		
8	The ideal liquid ratio is	1:1	1:2	1:4	1:5	1:1		
9	Total sales / debtors =	Debtors	Debtors turnover ratio	Current ratio	Liquid ratio	Debtors turnover ratio		
10	The excess of current assets over current liabilities is known as	Current ratio	Liquid ratio	Working capital	Debt- Equity Ratio	Working capital		
11	To measure the overall performance and 3effectiven3ess of the firm.	Profitabil ity	Activity	Liquidity	Leverage	Profitability		
12	A current ratio represents that the firms liquidity position.	High	Low	Both a and b	Medium	Low		
13	Efficiency ratio are also called as ratios	Turnover	Profitabil ity	Liquidity	Leverage	Turnover		
14	A inventory ration indicates an inefficient management of inventory.	Low	High	Both a and b	Medium	Low		

	Profit and loss account is also	Balance	Income	Asset	Common	Income
15		sheet	statement	account	Statement	statement
16	Proprietary ratio is also known as	Equity	Debt equity	current	Dect	Equity
17	With the help of current assets and current liabilities, one can calculate.		Gross profit ratio	Net profit ratio	Operating ratio	Current ratio
18	Current ration 2.5 ; current liabilities Rs 1,00,000 current assets=	40,000	2,50,000	1,50,000	2,00,000	2,50,000
19	Average of gross profit Rs. 40,000 ; rate of gross profit 25% sales=	10,000	1,00,000	1,60,000	50,000	1,00,000
20	Average stock= rs. 40,000; closing stock RS 5000 in excess of opening stock. Then the closing stock is equal to	42,500	80,000	40,000	85,000	42,500
21	The mathematical yardstick, which provides a measure of the relationship between two accounting, figure is known.	Accounti ng ratio	Property ratio	Current ratio	Gross profit ratio	Accounting ratio
22	Ratios help to management in evaluating the performance.	Solvency	Activity	Liquidity	Profitabilit y	Activity
23	Solvency is indicated by debt equity ratio.	Long term	Short term	Both a and b	Medium Term	Long term
24	The primary objective of ratio is to measure the liquidity.	Gross profit	Net profit	Current ratio	Operating Profit	Current ratio
25	Average receivable period is 2.4 months, hence debtors turnover will be	6 months	10 months	5 months	4 months	5 months
26	If the operating ratio is 75%; the net operating profit ratio will be	25%	100%	66%	10%	25%
27	ratio establishes the relationship between total operating expenses and sales.	Current ratio	Operatin g ratio	Liquid ratio	Stock turnover ratio	Operating ratio

28	Total assets minus total liabilities is equal to	Network	Owner's fund	Share holder's fund	All of the above	All of the above
29	ratio indicates the number of times earning per share is covered by its market price.	Earning per share	Price earning ratio		Yield Per Share	Price earning ratio
30	ratio I s also known as rate of dividend to net profit	Payout	Price earning ratio	Gross profit ratio	Net profit ratio	Payout
31	The reciprocal of payout ratio is	Interest cover	Dividend covers	Earning per share	Price earning ratio	Dividend covers
32	Activity ratios are also known as	Performa nce ratios	Turnover ratios	Both a and b	Profitabilit y Ratios	Turnover ratios
33	indicates the number of times the payable rotate in a year.		Debtors turnover	Stock turnover	Debtors velocity	Creditors velocity
34	ratio attempts to measure the utilization and effectiveness of the use of current assets.	Current assets turn over	Current ratio	Net current assets turnover	Liquid ratio	Current assets turn over
35	Financial ratio include	Fixed assets ratio	Current ratio	Quick ratio	All of the above	All of the above
36	Common statement is also known as	Compone nt percentag e	100 percent statement	Both a and b	50 percent statement	Both a and b
37	analysis refers to the comparison financial data of a company for several years.	vertical	Horizont al	Both a and b	axis	Horizontal
38	analysis refers to the study of relationship of the various items in the financial statements of one accounting period.	vertical	Horizont al	Both a and b	axis	vertical

39	liabilities are those liabilities which are intended to be paid in the ordinary course of business within one accounting year.	Fixed	Long term	Short term	current	current
40	Current ratio is 2. Current assets = Rs 40,000 then current liabilities=	Rs.5,000	Rs10,000	00	Rs1, 40,000	Rs1,20,000
41	Financial statements are	Estimates of facts	Anticipat ed facts	Recorded facts	Historical Facts	Recorded facts
42	Current liability of company is Rs. 3,00,000 if current ratio is 3:1 and quick ratio is1:1 then the value of stock in trade is	1,00,000	2,00,000	3,00,000	6,00,000	6,00,000
43	Current ratio= 2:5; liquid ratio=1:5 working capital= 60,000 then liquid assets =	20,000	60,000	40,000	1,00,000	60,000
44	Current assets of a concern = Rs. 3,00,000 current liabilities = 1,00,000 then current ratio =	3	2	1	4	3
45	If current ratio is 1:5:1 and current liability is 50,000 then the current assets could be	1,00,000	1,25,000	75,000	70,000	75,000
46	Higher the ratio, the lower the profitability is applicable to	Gross profit ratio	Net profit ratio	Operatio n ratio	Return on investment	Operation ratio
47	Which of the following transaction with results in change in current ratio	paid 90 day bank loan	liquidate d long term liability	purchase d merchand ise on credit	received payment of an account receivable	liquidated long term liability
48	Financial statement records only	Monetary facts	No monetary facts	Both a and b	Non Monetary	Monetary facts
49	Network of business means	Equity capital	Total assets	Total assets- total liabilities	Fixed assets- current assets	Total assets- total liabilities

	An in debt collection	Increase	Decrease	Both a	Neither	Increase
	period indicates blockage of	meredse	Decrease	and b	Increase	meredse
50	funds in debtors.				nor	
	iunus in debtors.				Decrease	
		-41-	fixed			1
	ratio denotes the	stock		working	gross profit	
51	relationship between stock and		assets	capital	ratio	over ratio
	sales.	ratio	turnover	ratio		
			ratio			
	ratio gives an idea about		fixed	fixed	Turnover	fixed assets
	adequate investments or over	assets	assets to	assets to	Ratio	to capital
52	investment or under	turn over	current	capital		ratio
	investment in fixed assets.	ratio	assets	ratio		
			ratio			
	is the between sales or	Debt	Owned	Fixed	Operation	Owned
53	cost of sales and share	equity	capital	assets	ratio	capital
	holder's fund.	ratio	turnover	ratio		turnover
54	Total sales – sales return =	Net sales	Cash	Credit	Average	Net sales
54			sales	sales	sales	
55	Cash sales + credit sales +	Net sales	Sales	Total	Average	Total sales
55			return	sales	Sales	
	Cost of goods sold + closing	Purchase	Sales	Purchase	Sales	Purchase
56	stock – opening			return	return	
	stock=					
57	Opening stock + closing	Total	Average	Total	Total	Average
57	stock/2 =	stock	stock	liabilities	Assets	stock
58	Working capital = proprietary	Total	Current	Fixed	Contingent	Fixed asset
50	funds	asset	asset	asset	Assets	
	Opening stock + purchase –	Sales	Purchase	Cost of	Working	Cost of
59	closing stock			goods	capital	goods sold
	_			sold	-	-
	Opening debtors + closing	Total	Average	Total	Average	Average
60	debtors /2	creditors	creditors	debtors	debtors	debtors

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UNIT 3

SYLLABUS

Fund Flow Statement and Cash Flow Statement: Meaning – Definition – Objectives – Uses – Limitation – Procedure. Cash Flow Statement – Meaning – Objectives – Significance – Distinguish Between Fund Flow Statement and Cash Flow Statement.

Definition of fund flow

Flow of fund is just like circulation of blood. Like circulation of blood, fund flow should come in business and go from business.

Flow of fund here means conversation of one asset to be use to purchase of another asset or use to deduction in liabilities

Definition of fund flow statement

Fund flow statement is a statement which shows source and use of fund in particular time. This period may be two years or more years' .Basis of making fund flow statement is two years or more than two years balance sheet.

Funds Flow Statement is a statement prepared to analyse the reasons for changes in the Financial Position of a Company between two Balance Sheets. It shows the inflow and outflow of funds i.e. Sources and Applications of funds for a particular period.

In other words, a **Funds Flow Statement** is prepared to explain the changes in the Working Capital Position of a Company.

There are 2 types of Inflows of Funds:-

- 1. Long Term Funds raised by Issue of Shares, Debentures or Sale of Fixed Assets
- 2. Funds generated from Operations

If the Long Term Fund requirements of a company are met just out of the Long Term Sources of Funds, then the whole fund generated from operations will be represented by increase in Working Capital. However, if the Funds generated from Operations are not sufficient to bridge a gap of Long Term Fund Requirements, then there will be a decline in Working Capital.

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Advantages of Fund Flow Statements

A Funds flow statement is prepared to show changes in the assets, liabilities and equity between two balance sheet dates, it is also called statement of sources and uses of funds. The advantages of such a financial statement are many fold.

Some of these are:

- 1. Funds flow statement reveals the net result of Business operations done by the company during the year.
- 2. In addition to the balance sheet, it serves as an additional reference for many interested parties like analysts, creditors, suppliers, government to look into financial position of the company.
- 3. The Fund Flow Statement shows how the funds were raised from various sources and also how those funds were deployed by a company, therefore it is a great tool for management when it wants to know about where and from what sources funds were raised and also how those funds got utilized into the business.
- 4. It reveals the causes for the changes in liabilities and assets between the two balance sheet dates therefore providing a detailed analysis of the balance sheet of the company.
- 5. Funds flow statement helps the management in deciding its future course of plans and also it acts as a control tool for the management.
- 6. Funds flow statement should not be looked alone rather it should be used along with balance sheet in order judge the financial position of the company in a better way.

Disadvantages of Fund Flow Statements

Funds flow statement has many advantages; however it has some disadvantages or limitations also.

Let's look at some of the limitations of funds flow statement.

1. Funds Flow statement has to be used along with balance sheet and profit and loss account for inference of financial strengths and weakness of a company it cannot be used alone.

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- 2. Fund Flow Statement does not reveal the cash position of the company, and that is why company has to prepare cash flow statement in addition to funds flow statement.
- 3. Funds flow statement only rearranges the data which is there in the books of account and therefore it lacks originality. In simple words it presents the data in the financial statements in systematic way and therefore many companies tend to avoid preparing funds flow statements.
- 4. Funds flow statement is basically historic in nature, that is it indicates what happened in the past and it does not communicate anything about the future, only estimates can be made based on the past data and therefore it cannot be used the management for taking decision related to future.

Benefits of Funds Flow Statement

Funds Flow Statement is useful for Long Term Analysis. It is a very useful tool in the hands of the management for judging the financial and operating performance of the Company. The Balance Sheet and the Profit and Loss A/c (Income Statement)fail to provide the information which is provided by the Funds Flow Statement i.e. Changes in Financial Position of an enterprise. Such an analysis is of great help to the management, shareholders, creditors etc 1. The Funds Flow Statement helps in answering the following questions:-

- Where have the profits gone?
- Why is there an imbalance existing between liquidity position and profitability position of an enterprise?
- Why is the concern financially solid in spite of losses?

2. The Funds Flow Statement analysis helps the management to test whether the working capital has been effectively used or not and the working capital level is adequate or inadequate for the requirements of the business. The Working Capital Position helps the management in taking policy decisions regarding payment of dividend etc.

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3. The Funds Flow Statement Analysis helps the investors to decide whether the company has managed the funds properly. It also indicates the Credit Worthiness of a company which helps the lenders to decide whether to lend money to the company or not.

It helps the management to take policy decisions and to decide about the financing policies and Capital Expenditure for the future.

Limitations of Fund Flow Statement

The fund flow statement suffers from the following **limitations**:

1. The fund flow statement is prepared with the help of balance sheet and profit and loss account of the current period and these statements are based on historical cost. So a realistic comparison of profitability and the funds position is not possible as the current cost is not considered for the purpose of preparation of fund flow statement.

2. The cash position of the firm is not revealed by fund flow statement. To know the cash position a cash flow statement has to be prepared.

3. The various activities are not classified as operating activities, investing activities and financing activities while preparing fund flow statement.

Uses of Fund Flow Statement

The users of fund flow statement, such as investors, creditors, bankers, government, etc., can understand the managerial decisions regarding dividend distribution, utilization of funds and earning capacity with the help of fund flow statement.
 The quantum of working capital is revealed by the schedule of working capital changes, which is a part of fund flow statement.

3. The fund flow statement is the best and first source for judging the repaying capacity of an enterprise.

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4. The management will be able to detect surplus/shortage of fund balance.5. The fund from operation is not mentioned in the profit and loss account and balance sheet but it is separately calculated for the purpose of fund flow statement.

	Basis of	Funds Flow Statement	Cash Flow Statement
	Difference		
1.	Basis of	Funds flow statement is based on	Cash flow statement is based on narrow
	Analysis	broader concept i.e. working	concept i.e. cash, which is only one of the
		capital.	elements of working capital.
2.	Source	Funds flow statement tells about	Cash flow statement stars with the opening
		the various sources from where the	balance of cash and reaches to the closing
		funds generated with various uses	balance of cash by proceeding through
		to which they are put.	sources and uses.
3.	Usage	Funds flow statement is more	Cash flow statement is useful in
		useful in assessing the long-range	understanding the short-term phenomena
		financial strategy.	affecting the liquidity of the business.
4.	Schedule of	In funds flow statement changes in	In cash flow statement changes in current
	Changes in	current assets and current	assets and current liabilities are shown in
	Working	liabilities are shown through the	the cash flow statement itself.
	Capital	schedule of changes in working	
		capital.	
5.	End Result	Funds flow statement shows the	Cash flow statement shows the causes the
		causes of changes in net working	changes in cash.
		capital.	
6.	Principal of	Funds flow statement is in	In cash flow statement data obtained on

Difference between Funds Flow Statement and Cash Flow Statement

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Accounting	alignment with the accrual basis of	accrual basis are converted into cash basis.
	accounting.	

Steps for making Fund flow statement

Procedure for preparing fund flow statement

For making fund flow statement , we took three steps

1st step: Making schedule or statement of change working capital

2nd step: Making adjusted profit and loss account or statement showing fund from operation or lost in operation

3rd Step: Fund flow statement

First Step

Making of statement of Changes of Working Capital

For making of fund flow statement. It is very necessary to make statement of changes of working capital. Because net increase in working capital is use of fund and net decrease in working capital is source of fund. So, it is duty of accountant to make statement of changes of working capital. Making of statement of changes working capital is very easy and simple.

We take two balance sheets, one is current year balance sheet and other is previous year balance sheet. Then we separate current assets and current liabilities.

If current assets are more than previous year current assets, it means increase in working capital.

If current assets are less than previous year current assets, it means decrease in working capital. Because, relationship between current assets and working capital is positive and if any changes in current assets, working capital will change in same direction.

If current liabilities are more than previous year current liabilities, it means decrease in working capital.

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If current liabilities are less than previous year current liabilities, it means increase in working capital. Relationship between working capital and current liabilities are inverse.

Statement or schedule of changes in working capital

Particular	previous	Current	Effect on working capital	
	year	year		
			Increase	Decrease
Current Assets				
Þ <u>Cash in hand</u>				
Þ Bills receivable				
Þ Sundry debtors				
Þ				
Temporary <u>investments</u>				
P Stocks / inventories				
Þ Prepaid expenses				
Þ Accrued incomes				
Total current assets	XXXX	XXXX	· · · · ·	
Current liabilities				
Þ Bills payables				
P Sundry creditors				
Þ Bank overdraft				
Þ Short term <u>advances</u>				
P Dividends payables				
Þ <u>Provision for</u>				
taxation				
Total current	XXXX	XXXX		

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Liabilities				
Working capital	XXXX	XXXX		
CA- CL				
Net increase or	XXXX	XXXX	XXXX	XXXX
decrease in working				
capital				

2nd Step

Statement showing the fund from operation

Because is the source of fund and will show in fund flow statement's source side. So before making fund flow statement, we must make statement showing the fund from operation.

Operation means business activity and fund from operation means profit from business activity. So, you will easy understand that profit from business activity between two accounting period must be the source of fund.

Statement of fund from operations

Closing balance of profit and loss account or retained earning as given in the Balance sheet Add non –fund and non operating items which have been already

Debited to profit and loss account

- 1. Depreciation
- 2. Amortization of fictitious and intangible assets

goodwill

patents

trade marks

preliminary expenses

discount on issue of shares

3. Appropriation of retained earning such as

Transfer to general reserve

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Dividend equalization fund

Transfer to sinking fund

Contingency reserve etc.

4. Loss on sale of any non current or fixed assets such as

Loss on sale of land and building

Loss on sale of machinery

Loss on sale of furniture

Loss on sale of long term investments

5. Dividends including

Interim dividend

Proposed dividend

(If it is an appropriation of profit and not taken as current liability)

6. Provision for taxation (if it is not taken as current liability)

7. Any other non fund / non operating items which have been debited to P/L account

Total (A)-----> ↓ XXXXX ↓

Less : Non –Fund or non operating items which have already been credited to profit and loss account

1. Profit or gain from the sale of non current / fixed assets such as

Profit on sale of land and building

Profit on sale of plant and machinery

Profit on sale of long term investment etc.

2. Appreciation in the value of fixed assets such as increase in the value of land if it has been credited to profit and loss account

3. Dividends received

4. Excess provision retransferred to profit and loss account or written back .

5. Any other non operating item which has been credited to profit and loss account

6. opening balance of profit and loss account or retained earnings as given in the balance sheet

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Total (B)-----> \downarrow XXXXX \downarrow

Funds received from operation or business activities = total (A) - Total (B)

(You can make also above statement in t shape adjusted profit and loss account form).

3rd Step

Fund flow statement

A) Source of funds: Fund from operation (balance of second step)

- 1. issue of shares capital
- 2. issue of debentures
- 3. raising of long term loans
- 4. receipts from partly paid shares, called up
- 5. amount received from sales of non current or fixed assets
- 6. non trading receipts such as dividend received
- 7. sale of investments (Long term)
- 8. Decrease in working capital as per schedule of changes in working capital

total>	$\downarrow XXXXX \downarrow$
totui /	V I II II II II V

B) Applications or uses of funds

1. Funds lost in operations (Balance negative in second step)

- 2. Redemption of preference share capital
- 3. Redemption of debentures
- 4. Repayment of long term loans
- 5.purchase of long term loans
- 6.purchase of long term investments
- 7. Non trading payments
- 8. Payment of tax
- 9.payment of dividends
- 10. increase in working capital (As per positive balance of ist step)

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total -----> \downarrow XXXXX \downarrow

There are 3 basic financial statements that exist in the area of Financial Management.

- 1. Balance Sheet.
- 2. Income Statement.
- 3. Cash Flow Statement.
- 4. Fund Flow Statement

The first two statements measure one aspect of performance of the business over a period of time. Cash flow statements signify the changes in the cash and cash equivalents of the business due to the business operations in one time period. Funds flow statements report changes in a business's working capital from its operations in a single time period, but have largely been superseded by cash flow statements.

A **Cash Flow Statement** is a statement showing changes in cash position of the firm from one period to another. It explains the inflows (receipts) and outflows (disbursements) of cash over a period of time. The inflows of cash may occur from sale of goods, sale of assets, receipts from debtors, interest, dividend, rent, issue of new shares and debentures, raising of loans, short-term borrowing, etc. The cash outflows may occur on account of purchase of goods, purchase of assets, payment of loans loss on operations, payment of tax and dividend, etc.

A cash flow statement is different from a cash budget. A cash flow statement shows the cash inflows and outflows which have already taken place during a past time period. On the other hand a cash budget shows cash inflows and outflows which are expected to take place during a future time period. In other words, *a cash budget is a projected cash flow statement*.

Funds Flow Statement states the changes in the working capital of the business in relation to the operations in one time period.

The main components of Working Capital are:

Current Assets

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- 1. Cash
- 2. Receivables
- 3. Inventory

Current Liabilities

1. Payables

Net working capital is the total change in the business's working capital, calculated as total change in current assets minus total change in current liabilities.

Working Capital = Current Assets-Current Liabilities

PROBLEMS:

SUM 1:

Prepare a funds flow statement

Liabilities	As on 31st December		Assets	As on 31st December		
	2004	2005	ASSUS	2004	2005	
Share Capital	10,000	15,000	Cash	5,000	8,000	
Profit and Loss			Debtors	10,000	15,000	
Appropriation account	5,000	8,000	Stock	10,000	12,000	
Long Term Loan	4,000	6,000	Machinery	3,000	5,000	
Sundry Creditors	8,000	12,000	Land	4,000	4,000	
Bills Payable	5,000	3,000				
	32,000	44,000	-	32,000	44,000	

Balance Sheet of M/s _

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From the information relating to the non-current area from the balance sheet figures on 31st Dec 2004 and 31st Dec 2005, we would be able to prepare a funds flow statement for the period between 31st December 2004 and 31st December 2005 i.e. for the year 2005.

Balance Sheet of M/s ____

Particulars/Account	Balance as	on 31 st December	Working Capital Change	
Farticulars/Account	2004	2005	Increase	Decrease
a) CURRENT ASSETS				
1) Cash	5,000	8,000		3,000
2) Sundry Debtors	10,000	15,000		5,000
3) Stock	10,000	12,000		2,000
TOTAL	25,000	35,000		10,000
b) CURRENT LIABILITIES				
1) Sundry Creditors	8,000	12,000	4,000	
2) Bills Payable	5,000	3,000		2,000
TOTAL	13,000	15,000	4,000	2,000
Working Capital [(a) - (b)]	12,000	20,000		
TOTAL			4,000	12,000
Net Change in Working Capital				8,000

Schedule/Statement of Changes in Working Capital for the period from _____ to ____

Funds Flow Statement for the period from _____ to ____

Particulars	Amount	Amount

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a) Sources (Inflow) of Funds			
1) Share Capital	5,000		
2) Funds from Operations	3,000	8,000	
[P/L appropriation account]			
 b) Applications (Outflow) of Funds 1) General Reserve 2) Machinery 	2,000 2,000	4,000	
Change in Working Capital [a - b]		+ 4,000	

SUM 2:

From the following information prepare

- i) A Schedule of Changes in Working Capital
- ii) A Funds Flow Statement

Balance Sheet of M/s ____

Liabilities		Assets	as on 31 st March		
Liaolinties	2006	2007	A55015	2006	2007
Capital	18,50,000	21,00,000	Goodwill (at Cost)	6,00,000	6,00,000
Profit/Loss	14,78,000	17,64,000	Land and Buildings	18,50,000	22,00,000
Appropriation	12,00,000	9,00,0000	Plant and Machinery	4,74,000	5,24,000
Bank Loan	4,00,000	6,80,000	Furniture and	1,94,000	1,94,000
Bills Payable	14,00,000	12,20,000	Fittings	8,26,000	7,24,000
Sundry Creditors	2,00,000	1,80,000	Stock/Inventories	12,00,000	12,80,000

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Reserve for Taxation			Sundry Debtors	8,00,000	7,21,000
			Bills Receivable	5,00,000	4,83,000
			Bank	84,000	1,18,000
			Cash		
TOTAL	65,28,000	68,44,000	TOTAL	65,28,000	68,44,000

SOLUTION

Schedule/Statement of Changes in Working Capital for the period from 31/03/06

to 31/03/07

Particulars/Account	Balance as on 31 st March		Working Capital Change	
	2006	2007	Increase	Decrease
 a) CURRENT ASSETS 1) Stock/Inventories 2) Sundry Debtors 3) Bills Receivable 4) Bank 	8,26,000 12,00,000 8,00,000 5,00,000 84,000	7,24,000 12,80,000 7,21,000 4,83,000 1,18,000	80,000 34,000	1,02,000 79,000 17,000
5) Cash TOTAL	34,10,000	33,26,000	1,14,000	1,98,000
 b) CURRENT LIABILITIES 1) Bills Payable 2) Sundry Creditors 3) Provision for Taxation 	4,00,000 14,00,000 2,00,000	6,80,000 12,20,000 1,80,000	1,80,000 20,000	2,80,000

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TOTAL	20,00,000	20,80,000	2,00,000	2,80,000
Working Capital [(a) - (b)]	14,10,000	12,46,000		
TOTAL	3,14,000	4,78,000		
Net Change in Working Cap		1,64,000		

Working Notes

Make up the ledgers for all the non-current accounts.

Dr	Capital a/c			Cr	
Date	Particulars	Amount	Date	Particulars	Amount
31/03/07	To Balance c/d	21,00,000	01/04/06	By Balance b/d	18,50,000
				By Bank a/c (?)	2,50,000
		21,00,000			21,00,000
			01/04/07	By Balance b/d	21,00,000

Assumption :

Capital has been raised during the period for cash.

Dr		Bank L	Cr		
Date	Particulars	Amount	Date	Particulars	Amount
	To Bank a/c (?) To Balance c/d	3,00,000 9,00,000	01/04/06	By Balance b/d	12,00,000
		12,00,000	-		12,00,000
			01/04/07	By Balance b/d	9,00,000

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Assumption :

Bank loan has been repaid during the period through a cheque.

Dr	La	and and Buil	dings a/c		Cr
Date	Particulars	Amount	Date	Particulars	Amount
01/04/06	To Balance b/d	18,50,000	31/03/07	By Balance c/d	22,00,000
	To Bank a/c (?)	3,50,000			
		22,00,000			22,00,000
01/04/07	To Balance b/d	22,00,000			

Assumption :

Additional assets have been purchased during the period for cash.

Dr

Plant and Machinery a/c

Cr

Date	Particulars	Amount	Date	Particulars	Amount
01/04/06	To Balance b/d	4,74,000	31/03/07	By Balance c/d	5,24,000
-	To Bank a/c (?)	50,000			
		5,24,000			5,24,000
01/04/07	To Balance b/d	5,24,000			

Assumption :

Additional assets have been purchased during the period for cash.

Posting by name Bank on the credit side indicates an inflow and on the debit side indicates an outflow.

Dr	Profit and Loss Appropriation	Cr
Dr	Profit and Loss Appropriation	Cr

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Date	Particulars	Amount	Date	Particulars	Amount
31/03/07	To Balance c/d	17,64,000	01/04/06	By Balance b/d	14,78,000
			31/03/07	By Funds From	
				Operations (?)	2,86,000
		17,64,000	-		17,64,000
			01/04/07	By Balance b/d	17,64,000

Assumption :

Funds have been generated through operations during the period.

Treat the Funds from operations posting as if it is a posting by name bank.

Funds Flow Statement

Funds Flow Statement for the period from 31/03/06 to 31/03/07

Particulars	Amount	Amount
 a) Sources (Inflow) of Funds 1) Share Capital 2) Funds from Operations [P/L appropriation account] 	2,50,000 2,86,000	5,36,000
 b) Applications (Outflow) of Funds 1) Land and Buildings 2) Plant and Machinery 3) Bank Loan 	3,50,000 50,000 3,00,000	7,00,000

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Sum 3:

Following are the Balance Sheets of BROYHILL Industries Ltd, as on 31.12.2005 and 31.12.2006

Liabilities	As on 31st December		Assets	As on 31st December	
Liaomties	2005	2006	Assets	2005	2006
SharecapitalDebenturesReserveProfit & Loss a/cCreditorsBankLoanFixedDepositsProvisionforDepreciationonBuildingsonPlantMachineryProvision for:BadDoubtfulDebtsTaxation	12,00,000 4,00,000 3,00,000 2,50,000 4,50,000 2,00,000 2,00,000 12,000 40,000 60,000 50,000	16,00,000 6,00,000 3,50,000 5,00,000 3,80,000 13,00,000 - 6,000 48,000 70,000 1,20,000	Goodwill (at Cost) Plant and Machinery (Cost) Furniture Buildings Investments Land Debtors Stock Bank Preliminary expenses	6,00,000 8,00,000 2,00,000 6,00,000 2,20,000 3,50,000 3,38,000 6,00,000 40,000 14,000	5,50,000 14,90,000 2,00,000 10,00,000 - 4,70,000 3,72,000 8,00,000 80,000 12,000
	37,62,000	49,74,000		37,62,000	49,74,000

Balance Sheet of M/s BROYHILL Industries Ltd,

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You are required to analyse the Funds Flow and the Changes in working Capital in as much detail as possible, using the following additional details available.

M/S BROYHILL Industries Ltd

Schedule/Statement of Changes in Working Capital for the period from 31/12/05 to 31/12/06

	Balance as o	on 31 st March	Working Capital Change	
Particulars/Account	2005	2006	Increase	Decrease
 a) CURRENT ASSETS 1) Debtors 2) Stock 3) Bank 	3,38,000 6,00,000 40,000	3,72,000 8,00,000 80,000	34,000 2,00,000 40,000	- - -
TOTAL	9,78,000	12,52,000	2,74,000	-
 b) CURRENT LIABILITIES 1) Creditors 2) Provision for Bad Debts 2) Provision for Taxation 	4,50,000 60,000 50,000	3,80,000 70,000 1,20,000	70,000	10,000 70,000
TOTAL	5,60,000	5,70,000	70,000	80,000
Working Capital [(a) - (b)]	4,18,000	6,82,000		

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TOTAL	3,14,000	4,78,000
Net Change in Working Capital	2,64,000	

Dr	Profit and Loss	Cr	
Particulars	Amount	Particulars	Amount
To Reserve a/c	30,000	By Building Sale a/c	20,000
To Profit and Loss a/c	2,50,000	By Investments a/c	24,000
To Goodwill a/c	50,000	By Funds From Operations	3,64,000
To Reserve for Depreciation		(?)	
on Plant and Machinery	20,000		
To Machine Sale a/c	8,000		
To Depreciation on	44,000		
Furniture		· ·	
To Reserve for Depreciation	4,000		
on Building	2,000		
To Preliminary Expenses			
		-	
	4,08,000		4,08,000

Prepared by P.Kalaivani, Asst Prof, Department of Commerce, KAHE

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COURSE CSt@fen1661M&i6CalculativitTofIffunds flown&Opasta films Statements) BATCH-2015-2018

Particulars	Amount	Amount
Current Period Profit Capitalised		2,50,000
Add: Losses/Appropriations debited to Profit/Loss a/c		
1) Reserve created	30,000 50,000	
2) Goodwill written off	20,000	
3) Reserve for Depreciation on Plant and Machinery	8,000	
4) Loss on Sale of Machine	44,000	
5) Depreciation on Furniture	4,000	
6) Reserve for Depreciation on Building	2,000	1,58,000
7) Preliminary Expenses Written off		
Less: Gains and Adjustments credited to Profit/Loss a/c	20,000	4,08,000
1) Profit on Sale of Building		11 000
1) Profit on Sale of Investments	24,000	44,000
Funds From Operations		3,64,000

Statement of Sources and Applications of Funds for the period from _____ to ____

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Sources/Inflows of Funds	Amount	Applications/Outflows of Funds	Amount
Share Capital (Stock) Share Capital (Cash/Bank) Debentures Bank Loan Plant Sale Building Sale Investments Sale Land Sale Funds from Operations	50,000 $3,00,000$ $2,00,000$ $5,00,000$ $1,20,000$ $1,10,000$ $2,44,000$ $1,70,000$ $3,88,000$	Purchase of Plant and Machinery Purchase of Furniture Purchase of Buildings Fixed Deposits Cleared Purchase of Land	8,30,000 44,000 4,50,000 2,00,000 2,70,000
	20,58,000		17,94,000
		Change in Fund (Working Capital)	2,64,000

KARPAGAM ACADEMY OF HIGHER EDUCATION Management Accounting POSSIBLE QUESTIONS UNIT - III PART - A

	POSSIBLE QUEST			RT - A	1	
S.NO		OPTION1		OPTION3	OPTION4	ANSWER
1	May be regarded as the		Current	Fixed asset		Working
		1	asset		liability	capital
2	There are concepts of	One	Two	Three	Four	Two
	working capital					
3	The concepts of working	Gross	Net	Both a and	Working	Both a and
5	capital	concept	concept	b	capital	b
	The term represent the	Gross	Net	Both a and	Working	Net
4	difference between current	working	working	b	capital	working
4	assets and current liabilities	capital	capital			capital
	The networking capital can	positive	Negative	positive or	positive	positive or
5	be	-	-	negative	and	negative
				C	negative	C
	As indicated concepts	Net	Gross	Net or	Net and	Net and
6	of working capital have			gross	gross	gross
	functional significance			0	0	C
	At the beginning of a	Owners	Leaders	Owners	Owners or	Owners and
7	business venture cash is			and leaders	leader	leaders
	provided by					
_	is essentially	Fixed	Working	Stock	Liabilities	Working
8	circulating capital	assets	capital			capital
	The classification of working	One	Two	Three	Four	Two
9	capital into					
	components					
	component represents	Fixed	Permane	Both a and	Fluctuating	Both a and
	the value of the current assets		nt	b	Working	b
	required on a continuing	capital	working		Capital	
10	basis over the entire year and	1	capital		1	
	for several year		1			
	working capital can	permanen	Temporar	Variable	Adequate	permanent
		t	y		1	<u>`</u>
11	working capital and reserve		-			
	working capital					
	represents a certain	Fixed	permanen	Temporary	Fluctuating	Temporary
	amount of fluctuations in	working	t working		Working	working
12	current assets during a short	capital	capital	capital	Capital	capital
	period.	upitui	Cupitui	Cupitui	Cupitui	upiui
	Period.					

13	A business firm must maintain an of working in order to run its business smoothly.	permanen t	Fixed	Temporary	Adequate	Adequate
14	Adequate working capital will lead inefficiency in costs and reduction in profits.	Increase	Decrease	Both a and b	Negative	Increase
15	The amount of reduces the cost of purchases.	Cash discount	Goodwill	Credit worthiness	Ability to face cris	Cash discount
16	enables a business to without stand periods of depression smoothly.	Cash discount	Good will	Credit worthiness	Ability to face	Ability to face
17	Making prompt payment is a base to create and maintain	Cash discount	Good will	Ability to face crisis	Credit	Good will
18	of the firm can not work without adequate working capital.	Current assets	Total assets	Fixed assets	Fluctuating Assets	Fixed assets
19	A sound system of enables a concern to pay regular dividends to its investors.	Assets	Liabilitie s	Working capital	Stock	Working capital
20	The <u>manager is always</u> interested in obtaining the working capital at the right time, at a cost and the best favorable terms.	Financial	Marketin g	Sales	Purchase	Financial
21	The level cannot be expected to reduce at any time.	Minimu m	Maximu m	Medium	Equal	Minimum
22	Working capital should be provided in such a manner that the enterprise may have its uninterrupted use for a long time.	Long term	Short term	Internal	External	Long term
23	is the most important source for raising the permanent working capital	Floating of debenture s		Pouching back of profits	Loans	Issue of share
24	Shares are of types	One	Two	Three	Four	Two

25	amount of permanent capital should be raised by the issue of shares	Minimu m	Maximu m	Medium	Equal	Maximum
26	is also an important source of long term working capital.	Floating of debenture s	Issue of shares	Public deposit	Loans	Floating of debentures
27	means the reinvestment by a concern of its surplus earning in its business.	Ploughin g back of profit	-	Long term loans	public deposit	Ploughing back of profit
28	Provide types of loans long term, medium term short term loans.	One	Two	Three	All	All
29	type of finance is ordinary repayable in installments	Ploughin g back of profit	-	long term loans	Public deposits	long term loans
30	covers the need of working capital financing day to day business requirement.	•	Short term fund	Internal	External	Short term fund
31	<u>covers</u> the need of working capital financing day to day business requirement.	-	Short term fund	Internal	External	Short term fund
32	Short term working capital are of types.	One	Two	Three	Four	One
33	The reserve provides a good source of for working capital.	-	Provision for tax	Accrued expenses	Revenue Reserve	Provision for tax
34	Constitute as a source of working.	Depreciat ion	Provision for tax	Accrued expenses	Revenue Reserve	Accrued expenses
35	The firm can post pone the payment of expenses for period.	Short	Long	Maximum	Minimum	Short
36	The extended by one business enterprise on another on the purchase and sale of goods.	Credit papers	Trade credit	Bank credit	Customer's credit	Trade credit
37	can be discounted with a bank.	Credit papers	Trade credit	Bank credit	Customer's credit	Credit papers

	provides working	Credit	Trade	Bank credit		Bank credit
38	capital in the forum of over	papers	credit		credit	
	drafts, cash credit, short term,					
	loans etc.	Control	Q4-4-	1 - 0-	N	1 P-
39	governments,	Central	State	central &	None of the above	
28	sometimes, provide, short term finance on easy terms.			state	above	state
	is often obtained at	customer	Governm	Loans from	Security of	Loans from
	low rate interest.	's credit	ent	directors	employee	directors
40	low fute interest.	5 create	Citt	directors	employee	directors
	is required to make	Customer	Governm	Loans from	Security of	Security of
41	deposits their employer	s credit	ent	directors	employee	employee
	companies.					
	is the life blood of a	Assets	Liabilitie	Working	Loan	Working
42	business.	1155015	S	capital	Louin	capital
	Working capital =	Current	Current	Current	fixed assets	.
43		assets –	liabilities	assets +	+ current	assets –
43		current	- current	current	assets	current
		liabilities	assets	liabilities		liabilities
	Average cost per month =	Cost of	cost of	Cost of raw		
		raw	raw		material –	material /
44		material /		12 months	12 months	12 months
		12 months	+ 12 months			
	Accounts are	Payable		Both a and	Accentable	Receivables
45	collected from debtor's cash	i ayabic	les	b		Receivables
	into firm.		105	C .		
	is not a method of	Standard	Marginal	Working	Budgetary	Marginal
46	cost ascertainment like job	costing	costing	capital	control	costing
	costing or contract costing.					
	For marginal	Planning	co-	Decision	Staffing	Staffing
47	costing is more helpful to the		ordinatin	making		
 	management.	a. 1 1	g	xx x 1 ·	D 1	
1.0	In costing, only	Standard	Marginal	-	Budgetary	Marginal
48	variable items of costs are			capital	control	
	taken into account.	Einad	Variable	Doth c or 1	Sami	Variable
40	is not allocated to	Fixed	Variable	Both a and	Semi -	Variable
49	cost unit	costs		b	variable Cost	
	1				COSI	

50	Marginal cost means the thing as variable cost.	Same	Different	Variable	Fixed	Same
51	The accountant's concept of different from economist's concept of marginal cost.	Total cost	Average cost	Additional cost	Marginal cost	Marginal cost
52	Economists define marginal cost as the producing one additional unit.	Total cost	Average cost	Additional cost	Marginal cost	Additional cost
53	Additional unit shall include an element of also	Fixed cost	Variable cost	Total cost	Semi - variable Cost	Fixed cost
54	Marginal cost =	prime cost – total variable	Total variable cost – prime cost	Prime cost + total variable cost	Prime cost + total fixed cost	Prime cost + total variable cost
55	Marginal cost =	Total cost – fixed cost	Total cost – variable cost	Total cost + fixed cost	Total cost + variable cost	Total cost – fixed cost
56	Total cost 400, fixed cost Rs. 200 marginal cost =	600	200	500	100	200
57	Marginal cost =	Increase in total cost / increase in total units	in total cost /	Increase in total cost X increase in total units	Increase	Increase in total cost / increase in total units
58	Total cost Rs. 600 fixed cost Rs. 200 marginal cost	100	200	800	400	400
59	Total cost Rs.800 fixed cost Rs. 200 marginal cost =	600	800	1000	200	600
60	is one which tends to be unaffected by variation in volume of output.	Total cost	Average cost	Marginal cost	Fixed cost	Fixed cost

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Unit IV SYLLABUS

Marginal Costing: Meaning – Definition – Objectives – Scope – Advantages and Disadvantages of Marginal Costing – Cost Volume Profit Analysis – Profit Volume Ratio – Contribution – Break Even Point – Margin of Safety – Break Even Chart.

Introduction

By analyzing the Behaviour of costs in relation to changes in volume of output it becomes evident that there are some items of costs which tend to vary directly with the volume of output, whereas there are others which tend to vary with volume of output, are called variable cost and those remain unaffected by change in volume of output are fixed cost or period costs.

Marginal costing is a study where the effect on profit of changes in the volume and type of output is analyzed. It is not a method of cost ascertainment like job costing or contract costing. It is a technique of costing oriented towards managerial decision making and control.

Marginal costing, being a technique can be used in combination with other technique such as budgeting and standard costing. It is helpful in determining the profitability of products, departments, processes, and cost centres. While analyzing the profitability, marginal costing interprets the cost on the basis of nature of cost. The

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emphasis is on Behaviour of costs and their impact on profitability

Definition

Marginal costing is defined by the ICWA, India as "the ascertainment of marginal costs and of the effect on profit of changes in volume or type of output by differentiating between fixed costs, and variable costs"

Batty defined Marginal Costing as, "a technique of cost accounting which pays special attention to the Behaviour of costs with changes in the volume of output"

Kohler"s Dictionary for Accounting defines Marginal Costing "as the ascertainment of marginal or variable costs to an activity department or products as compared with absorption costing or direct costing"

The method of charging all the costs to production is called absorption costing. Kohler^s dictionary for Accountants defines it as "the process of allocating all or a portion of fixed and variable production costs to work - in - process, cost of sales and inventory". The net profits ascertained under this system will be different from that under marginal costing because of

- Difference in stock valuation
- \Box Over and under absorbed overheads

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Direct costing is defined as the process of assigning costs as they are incurred to products and services

Features of Marginal Costing

The following are the special features of Marginal Costing:

□ Marginal costing is a technique of working of costing which is used in conjunction with other methods of costing (Process or job)

□ Fixed and variable costs are kept separate at every stage. Semi –

Variable costs are also separated into fixed and variable.

- As fixed costs are period costs, they are excluded from product cost or cost of production or cost of sales. Only variable costs are considered as the cost of the product.
- As fixed cost is period cost, they are charged to profit and loss account during the period in which they incurred. They are not carried forward to the next year's income.
- \Box Marginal income or marginal contribution is known as the income or profit.

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- □ The difference between the contribution and fixed costs is the net profit or loss.
- □ Fixed costs remains constant irrespective of the level of activity.
- □ Sales price and variable cost per unit remains the same.
- □ Cost volume profit relationship is fully employed to reveal the state of profitability at various levels of activity.

Assumptions in Marginal Costing

The technique of marginal costing is based on the following assumptions:

- 1. All elements of costs can be divided into fixed and variable.
- 2. The selling price per unit remains unchanged at all levels of activity.
- 3. Variable cost per unit remains constant irrespective of level of output and fluctuates directly in proportion to changes in the volume of output.
- 4. Fixed costs remain unchanged or constant for the entire volume of production.
- 5. Volume of product is the only factor which influences the costs.

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Characteristics of Marginal Costing

The essential characteristics and mechanism of marginal costing technique may be summed up as follows:

- 1. **Segregation of cost into fixed and variable elements:** In marginal costing, all costs are segregated into fixed and variable elements.
- 2. **Marginal cost as product cost:** Only marginal (variable) costs are charged to products.
- 3. **Fixed costs are period costs:** Fixed cost are treated as period costs and are charged to costing profit and loss account of the period in which they are incurred.
- 4. Valuation of inventory: The work in progress and finished stocks are valued at marginal cost only.
- 5. Contribution is the difference between sales and marginal cost: The relative profitability of the products or departments is based on a study of "contribution" made by each of the products or departments.

Advantages of Marginal Costing

Marginal costing is an important technique of managerial decision making. It is a tool for cost control and profit planning. The following are the advantages of marginal costing technique:

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1. Simplicity

The statement propounded under marginal costing can be easily followed as it breaks up the cost as variable and fixed.

2. Stock Valuation

Stock valuation cab be easily done and understood as it includes only the variable cost.

3. Meaningful Reporting

Marginal costing serves as a good basis for reporting to management. The profits are analyzed from the point of view of sales rather than production.

4. Effect on Fixed Cost

The fixed costs are treated as period costs and are charged to Profit and Loss Account directly. Thus, they have practically no effect on decision making.

5. Profit Planning

The Cost – Volume Profit relationship is perfectly analysed to reveal efficiency of products, processes, and departments. Break – even Point and Margin of Safety are the two important concepts helpful in profit planning.

6. Cost Control and Cost Reduction

Marginal costing technique is helpful in preparation of flexible budgets as the costs are classified into fixed and variable. The emphasis is laid on variable cost for control.

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The constant focus is on cost and volume and their effect on profit pave the way for cost reduction.

7. Pricing Policy

Marginal costing is immensely helpful in determination of selling prices under different situations like recession, depression, introduction of new product, etc. Correct pricing can be developed under the marginal costs technique with the help of the cost information revealed therein.

8. Helpful to Management

Marginal costing is helpful to the management in exercising decisions regarding make or buy, exporting, key factor and numerous other aspects of business operations.

Limitations of Marginal Costing

Following are the limitations of marginal costing:

□ Classification of Cost

Break up of cost into fixed and variable portion is a difficult problem. More over clear cost division of semi – variable or semi – fixed cost is complicated and cannot be accurate.

□ Not Suitable for External Reporting

Since fixed cost is not included in total cost, full cost is not available to outsiders to judge the efficiency.

□ Lack of Long – term Perspective

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Marginal costing is most suitable for decision making in a short term. It assumes that costs are classified into fixed and variable. In the long term all the cost are variable. Therefore it ignores time element and is not suitable for long term decisions.

□ Under Valuation of Stock

Under marginal costing only variable costs are considered and the output as well as stock are undervalued and profit is distorted. When there is loss of stock the insurance cover will not meet the total cost.

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□ Automation

In these days of automation and technical advancement, huge investments are made in heavy machinery which results in heavy amount of fixed costs. Ignoring fixed cost in this context for decision making is irrational.

□ **Production Aspect is Ignored**

Marginal costing lays too much emphasis on selling function and as such production aspect has been considered to be less significant. But from the business point of view, both the functions are equally important.

□ Not Applicable in all Types of Business

In contract type and job order type of businesses, full cost of the job or the contract is to be charged. Therefore it is difficult to apply marginal costing in all these types of businesses.

□ Misleading Picture

Each product is shown at variable cost alone, thus giving a misleading picture about its cost.

□ Less Scope for Long – term Policy Decision

Since cost, volume, and profits are interlinked in price determination, which can be changed constantly, development of long term pricing policy is not possible.

Marginal Costing and Absorption Costing

Absorption costing charges all the costs i.e., both the fixed and variable fixed to the

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products, jobs, processes, and operations. Marginal costing technique charges variable cost. Absorption is not any specific method of costing. It is common name for all the methods where the total cost is charged to the output.

Absorption Costing is defined by I.C.M.A, England as "the practice of charging all costs, both fixed and variable to operations, processes, or products"

From this definition it is inferred that absorption costing is full costing. The full cost includes prime cost, factory overheads, administration overheads, selling and distribution overheads.

1. Total cost technique is the practice of	1. Marginal costing charges only
charging all cost, both variable and	variable cost to products, process, or
fixed to operations, process or products.	operations and excludes fixed cost
2. It values stock at the cost which	entirely.
includes fixed cost also.	2. It values stock at total variable cost
3. It is guided by profit which is the	only. This results in higher value of
excess of sales over the total costs in	stock under absorption costing than in
solving managerial problems	marginal costing.
4. In total cost technique, there is a	
problem of apportionment of fixed	3. It focuses its attention on
costs which may result in under or over	

Distinction between Absorption Costing and Marginal Costing

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The difference between marginal costing and absorption costing is shown with the help of the following examples.

Differential costing

The concept of differential cost is a relevant cost concept in those decision situations which involve alternative choices. It is the difference in the total costs of two alternatives. This helps in decision making. It can be determined by subtracting the cost of one alternative from the cost of another alternative. Differential costing is the change in the total cost which results from the adoption of an alternative course of action. The alternative may arise on account of sales, volume, price change in sales mix, etc decisions. Differential cost analysis leads to more correct decisions than more marginal costing analysis. In this technique the total costs are considered and not the cost per unit. Differential costs do not form part of the accounting system while marginal costing can be adapted to the routine However, when decisions involve huge amount of money accounting itself. differential cost analysis proves to be useful.

In the illustration given below, differential cost at levels of activity has been shown:

	Alternative I	Alternative II	Differential cost
Sales (Rs)	80000	100000	20000
Direct materials	40000	50000	10000

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Direct labour	16000	20000	4000
Variable overheads	4000	5000	1000
Fixed overheads	3000	3000	-
Cost of sales	63000	78000	15000

Differential cost is generally confused with marginal cost. Of course, these two techniques are similar in some aspects but these also differ in certain other respects.

Similarities

- (i) Both the differential cost analysis and marginal cost analysis are based on the classification of cost into fixed and variable. When fixed costs do not change, both differential and marginal costs are same.
- (ii) Both are the techniques of cost analysis and presentation and are used by the management in formulating policies and decision making.

Dissimilarities

- (i) Marginal cost may be incorporated in the accounting system where as differential cost are worked out for reporting to the management for taking certain decisions.
- (ii) Entire fixed cost are excluded from costing where as some of the relevant fixed

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costs may be included in the differential cost analysis.

(iii)In marginal costing, contribution and p/v ratio are the main yardstick for evaluating performance and decision making. In differential cost analysis emphasis is made between differential cost and incremental or decremental revenue for making policy decisions.

(iv)Differential cost analysis may be used in absorption costing and marginal costing.

Marginal Cost

Marginal cost is the cost of producing one additional unit of output. It is the amount by which total cost increases when one extra unit is produced or the amount of cost which can be avoided by producing one unit less.

The ICMA, England defines marginal cost as, "the amount of any given volume of output by which the aggregate cost are charged if the volume of output is increased or decreased by one unit".

In practice, this is measured by the total cost attributable to one unit. In this context, a unit may be single article, a batch of articles, an order, a stage of production, a process etc., often managerial costs, variable costs are used to mean the same.

Features of Marginal Cost

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- □ It is usually expressed in terms of one unit.
- □ It is charged to operation, processes, or products.
- □ It is the total of prime cost plus variable overheads of one unit.

Marginal Cost Statement

In marginal costing, a statement of marginal cost and contribution is prepared to ascertain contribution and profit. In this statement, contribution is separately calculated for each of the product or department. These contributions are totaled up to arrive at the total contribution. Fixed cost is deducted from the total contribution to arrive at the profit figure. No attempt is made to apportion fixed cost to various products or departments.

Marginal Cost Equation

For convenience the element of cost statement can be written in the form of an equation as given below:

Sales – Variable Cost = Fixed Cost plus or minus Profit or Loss. Or Sales – Variable Cost = Fixed Cost plus or minus Profit or Loss

In order to make profit, contribution must be more than fixed cost and to avoid loss, contribution should be equal to fixed cost.

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The above equation can be illustrated in the form of a statement.

Application of marginal Costing

1. Fixation of Selling Price:

Price is one of the most significant factor that determines the market for the prodicts as well as the volume of profit for the organization. Under normal circumstances, the price of a product must cover the total cost of theat product plus a margin of profit. However under certain special circumstances, price has to be fixed even below the total cost

2. Accepting bulk orders:

Somebulk orders may be received from local dealers or foreign dealers asking for a price which is below the market price. This calls for a decision to accept or reject the order. The order from a local dealer should not be accepted at price below the market price because it will affect the normal market and goodwill of the company.

3. Make or buy Decision:

In a make or buy decision the price quoted by the outside suppliers should be compared with the marginal cost of producing the component parts. If the outside price of the component is lower than the marginal cost of producing it, it is worth buying.

4. Selection of suitable product Mix:

When a factory manufactures more than one product a problem is faced by the management as to which product will give maximum profits. The solution is the products which

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give the maximum contribution are to be retained and their production should be increased.

5. Key factor

It is also known as limiting factor. A key factor is one which restricts production and profit of a business. It may arise due to the shortage of material, labour, capital and sales. Normally where there is no limiting factor the selection of the product will be on the basis of the highest.

6. Maintaining a desired level of profit:

Management may be intersted in maintai ning a desired level of profits. The sales requi9red to earn a desired level of profits can be ascertained by the marginal techniques.

7. Alternatives methods of production

Marginal costing is helpful in comparing the alternative methods of productioin.

8. Determination of optimum level of activity:

The technique of marginal costing helps the management in determining the optimum level of activity. To make such a decision, contribution at different levels of activity can be found. The level of activity which gi ves the highest contribution will be the optimum level.

9. Evaluation of performance:

Evaluation performance efficiency of various department or products lines can be made with the help of marginal cost. The management has to discontinue the production of non profitable products so as to maximize the profits. In such cases, decision to discontinue will be on the basis of the lowers contribution.

10. Decision Making:

Decision making is a process of selecting the best course of action from a number of availed alternatives. Problems like selection of the method of manufacture, using the production capacity for different products, continuing, dropping of a product showing a loss, expansion or change in market call for a decision.

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COST VOLUME PROFIT ANALYSIS

Cost Volume Profit Analysis (C V P) is a systematic method of examining the relationship between changes in the volume of output and changes in total sales revenue, expenses (costs) and net profit. In other words, it is the analysis of the relationship existing amongst costs, sales revenues, output and the resultant profit.

To know the cost, volume and profit relationship, a study of the following is essential :

- (1) Marginal Cost Formula
- (2) Break-Even Analysis

Marginal Costing and Cost Volume Profit Analysis

- (3) Profit Volume Ratio (or) PV Ratio
- (4) Profit Graph
- (5) Key Factors and
- (6) Sales Mix

Objectives of Cost Volume Profit Analysis

The following are the important objectives of cost volume profit analysis:

(1) Cost volume is a powerful tool for decision making.

(2) It makes use of the principles of Marginal Costing.

(3) It enables the management to establish what will happen to the financial results if a specified level of activity or volume fluctuates.

(4) It helps in the determination of break-even point and the level of output required to earn a desired profit.

(5) The PV ratio serves as a measure of efficiency of each product, factory, sales area etc. and thus helps the management to choose a most profitable line of business.

(6) It helps us to forecast the level of sales required to maintain a given amount of profit at

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different levels of prices.

Marginal Cost Statement				
	Rs.			
Sales	XXXXX			
Less: Variable Cost	(xxxx)			
Contribution	xxxxx Less:			
Fixed Cost	(xxxx)			
Profit / Loss	XXXX			

Illustration No.1:

A company is manufacturing three products X, Y and Z. It supplies you the following information:

Products

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	X	Y	Z	
	(Rs)	(Rs)	(Rs)	
Direct Materials	2500	10000	1000	
Direct Labour	3000	3000	500	
Variable Overheads	2000	5000	2500	
Sales	10000	20000	5000	

Total fixed overheads Rs. 3000/-

Prepare a marginal cost statement and determine profit and loss.

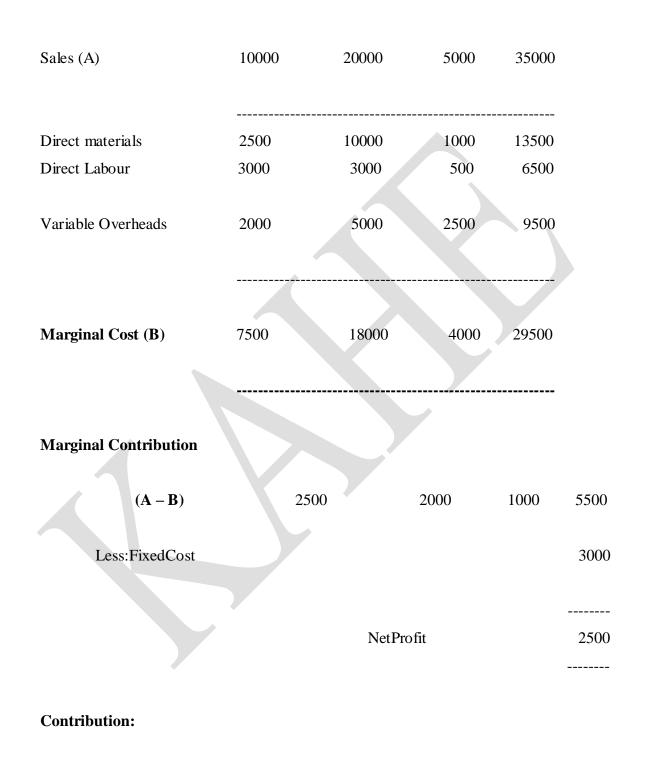
Solution:

Marginal Cost Statement

_	Products				
	XY	Z	Total		
	(Rs)	(R	s) (Rs)	(Rs)	

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Contribution is the difference between selling price and variable cost of one unit. The greater contribution from the selling unit indicates that the variable cost is less compared to selling price. Total contribution is the number of units Multiplied by contribution per unit. Contribution will be equal to the total fixed costs at break even point where profit is zero.

Illustration No.2:

Calculate contribution and profit from the following details: Sales Rs. 12000

Variable Cost Rs. 7000

Fixed Cost Rs. 4000

Solution:

Contribution = Sales – Variable cost

Contribution = Rs. 12000 – Rs. 7000 = **Rs. 5000**

Profit = Contribution – Fixed Cost

Profit = Rs. 5000 - Rs. 4000 = **Rs. 1000**

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Profit / Volume Ratio

This is the ratio of contribution to sales. It is an important ratio analysing the relationship between sales and contribution. A high p/v ratio indicates high profitability and low p/v ratio indicates low profitability. This ratio helps in comparison of profitability of various products. Since high p/v ratio indicate as high profits, the objective of every organization should be to improve or increase the p/v ratio.

P / V Ratio = Contribution / Sales x 100 or C / S x 100

When profits and sales for two consecutive periods are given, the following formula can be applied: Change in Profit

Change in Sales

P / V ratio is also used in making the following type of calculations:

- a) Calculation of Break even point.
- b) Calculation of profit at a given level of sales.

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- c) Calculation of the volume of sales required to earn a given profit.
- d) Calculation of profit when margin of safety (discussed below) is given.

e) Calculation of the volume of sales required to maintain the present level of profit if selling price is reduced.

Volume or activity can be expressed in any one of the following ways:

- 1. Sales capacity expressed as a percentage of maximum sales.
- 2. Sales value in terms of money.
- 3. Units sold.
- 4. Production capacity expressed in percentages.
- 5. Value of cost of production.
- 6. Direct labour hours.
- 7. Direct labour value.
- 8. Machine hours.

The factors which are usually involved in this analysis are:

a) Selling price b) Sales volume c) Sales mix

d) Variable cost per unit e) Total fixed cost

Illustration No:3

Sales Rs. 2,00,000

Variable Cost Rs.100000

You are required to calculate: P / V Ratio

Contribution=Selling Price - Variable Cost

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=Rs. 2,00000- 1,00,000=Rs.100000

P/V Ratio= Contribution/Sales *100= 100000/200000*100=50%

Break even Analysis

Break-Even Analysis is also called Cost Volume Profit Analysis. The term Break-Even Analysis is used to measure inter relationship between costs, volume and profit at various level of activity. A concern is said to break-even when its total sales are equal to its total costs. It is a point of no profit no loss. This is a point where contribution is equal to fixed cost. In other words, the break-even point where income is equal to expenditure {or} total sales equal to total cost.

The break-even point can be calculated by the following formula: Break-Even Point = Fixed cost/PV Ratio

Illustration No.4

From the following particulars find out break-even point: Fixed Expenses Rs. 1.00.000 Selling price Per unit Rs. 20 Variable cost per unit Rs. 15 Solution: Contribution per unit = Selling Price per unit - Variable Cost per unit = Rs. 20 - Rs. 15 = Rs. 5 =Rs. 1.00.000/5 =20.000 units

= 20,000 x Rs. 20 = Rs. 4,00,000

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Margin of safety:

The excess of actual or budgeted sales over the break-even sales is known as the margin of safety.

Margin of safety = actual sales - break-even sales

So this shows the sales volume which gives profit. Larger the margin of safety greater is the profit.

Marginal safety =Budget sales - break-even sales When margin of safety is not satisfactory, the following steps may be taken into account:

a)	Increase the volume of sales. b)
	Increase the selling price.
c)	Reduce fixed cost.
d)	Reduce variable cost.
e) P/V ratio.	Improve sales mix by increasing the sale of products with

The effect of a price reduction will always reduce the P / V ratio, raise the break

– even point shorten the margin of safety.

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Illustration No.5

From the following particulars, calculate Margin of safety :

Fixed cost Rs. 1,00,000

Variable cost Rs. 1,50,000

Total Sales Rs. 3,00,000

Solution:

Margin of Safety = Sales - Variable Cost

= Rs. 3,00,000 - 1,50,000 = Rs. 1,50,000

Profit = Contribution - Fixed Cost

= Rs. 1,50,000 - 1,00,000 = Rs.50,000

P I V Ratio 50%

50,000 /100x 50 = Rs. 1,00,000

Angle of incidence:

This is obtained from the graphical representation of sales and cost. When sales and output in units are plotted against cost and revenue the angle formed between the total sales line and the total cost line at the break-even point is called the angle of incidence.

Large angle indicates a high rate of profit while a narrow angle would show a relatively low rate of profit.

Profit goal:

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To earn a desired amount of profit i.e., a profit goal can be reached by the formula given below

Fixed cost + Desired profitability

Sales volume to reach profit goal = ----

Contribution ratio

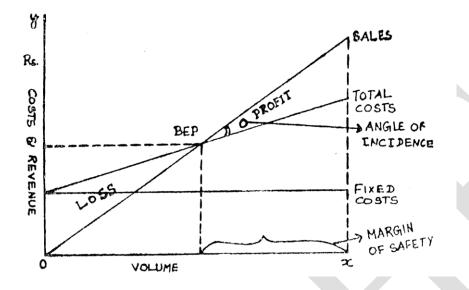
Break Even Chart

These depict the interplay of three elements viz., cost, volume, and profits. The charts are graphs which at a glance provide information of fixed costs, variable costs, production / sales achieved profits etc., and

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From the above break-even chart, we can understand the following points :

(1) Cost and sales revenue are represented on vertical axis, i.e., Y-axis.

(2) Volume of production or output in units are plotted on horizontal axis, i.e., X-axis.

(3) Fixed cost line is drawn parallel to X-axis.

(4) Variable costs are drawn above the fixed cost line at different level of activity. The variable cost line is joined to fixed cost line at zero level of activity.

(5) The sales line is plotted from the zero level, it represents sales revenue.

(6) The point of intersection of total cost line and sales line is called the break-even point which means no profit no loss.

(7) The margin of safety is the distance between the break-even point and total output produced.

(8) The area below the break-even point represents the loss area as the total sales and less than the

total cost.

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(9) The area above the break-even point represents profit area as the total sales more than the cost.

(10) The sales line intersects the total cost line represents the angle of incidence. The large angle of incidence indicates a high rate of profit and vice versa.

II. Cash Break-Even Point

In cash break-even chart, only cash fixed costs are considered. Non-cash items like depreciation etc. are excluded from the fixed costs for computation of break-even point. Cash Break-Even Chart depicts the level of output or sales at which the sales revenue will be equal to total cash outflow. It is computed as under:

Cash Break-Even Point = Cash Fixed Costs/Contribution per unit

Advantages of Break-Even Chart

- (1) It enables to determine the profit or loss at different levels of activities.
- (2) It is useful to measure the relationship between cost volume and profit.
- (3) It helps to determine the break-even units, i.e., output and sales volume.
- (4) It helps to measure the profitability of various products.
- (5) It facilitates most profitable product mix to be adopted.
- (6) It assists future planning and forecasting.
- (7) It enables to determine total cost, fixed cost and variable cost at different levels of activity.
- (8) This chart is very useful for effective cost control.

Limitations of Break-Even Chart

- (1) It is based on number of assumptions which may not hold good.
- (2) Break-even charts are rarely of value in a multi-product situation.

(3) A break-even chart does not take into consideration semi-variable cost, valuation of opening stock and closing stock.

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(4) Determination of selling price is based on many factors which will affect the constant selling price.

(5) Capital employed, Government policy, Market environment etc. are the important aspects for managerial decisions. These aspects are not considered in break-even chart.

Angle of Incidence

This is the angle of intersection between the sales line and the total cost line. The larger the angle the greater is the profit or loss, as the case may be.

Profit Volume Graph

Profit volume graph is a pictorial representation of the profit volume relationship. It shows profit and loss account at different volumes of sales. It is simplified form of break even chart as it clearly represents the relationship of profit to volume of sales. It is possible to construct a profit volume graph for any data relating to a business firm where a break even chart can be drawn. A profit volume graph may be preferred to a break even chart as profit or losses can be directly read at different levels of activity.

The construction of profit volume graph involves the following steps:

1. Scale of sale is selected on horizontal axis and that for profit or loss are selected on vertical axis. The area below the horizontal axis is the loss area and that above it is the profit area.

2. Points of profits of corresponding sales are plotted and joined. The resultant line is profit / loss line

Advanced Problems in Marginal Costing

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Problem No.1 From the following data calculate

- 1. Numbers of units to be sold to earn a profit of Rs.120000
- 2. Sales to earn a profit of Rs.120000

Selling price per unit	Rs.40
Sening price per unit	10.40

- Variable selling cost per unit Rs.3
- Variable manufacturing cost per unit Rs.22
- Fixed factory overhead Rs.160000
- Fixed selling cost Rs.20000

Solution

1. Number of units to be sold to earn a profit of Rs.120000

- = Fixed expenses+ profit/ contribution per unit
- = Rs.40 Rs.25 = Rs.15
- = Rs.180000+120000/15= 300000/15= 20000 units
- 2. Sales to earn a profit of Rs.120000

= Fixed expenses+ profit/ contribution per unit * Selling price per unit

= Rs.180000+120000/15*40= Rs.800000

Problem No.2 Assuming that the cost structure and selling prices remain the same in periods I and II find out

- 1. P/v Ratio
- 2. BE Sales
- 3. Profit when sales are Rs.100000
- 4. Sales required to earn a profit of Rs.20000

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Period	Sales Rs.	Profit Rs.
Ι	120000	9000
II	140000	13000

1. P/V Ratio = Contribution /sales *100

= 13000-9000/140000-120000*100= 20%

2. BE Sales

Contribution- Fixed Cost=24000=15000= Rs.9000

BE Sales= Fixed expenses/ PV Ratio= 15000/20%= Rs.75000

3. Profit when sales Rs.100000

100000=15000+profit/ 20% = Profit= Rs. 5000

4. Sales required to earn a profit of Rs.20000

Sales= 15000+20000/20%= Rs.175000

KARPAGAM ACADEMY OF HIGHER EDUCATION Management Accounting POSSIBLE QUESTIONS UNIT - IV PART - A

			UNIT - IV F OPTION2	PART - A OPTION3	OPTION4	ANSWER
S.NO		OPTION1				
1	Fixed cost does not change with the n production with a	Increase	Decrease	Increase or decrease	Both a and b	Increase or decrease
	certain range.					
2	is one which tends to vary does with the volume of output.	Fixed cost	Variable cost	Total cost	Marginal cost	Variable cost
3	is a technique or working costing, which is used in conjunction with other methods of costing.	Job costing	Standard costing	Marginal costing	Standard costing	Marginal costing
4	are kept separate at every stage	Fixed costs	variable costs	Fixed and variable costs	Semi - variable Cost	Fixed and variable costs
5	As fixed costs are costs	Total	Variable	Average	Period	Period
6	Period costs are from product cost or cost of production or cost of sales.	Included	Excluded	Included or excluded	Included and Excluded	Excluded
7	Only are considered as the cost of the product.	Fixed cost	Variable cost	Total cost	Marginal cost	Variable cost
8	Period costs are not carried forward to next years	Income	Expenses	Profit	Loss	Income
9	Marginal income or marginal contribution known as the	Income or expenses	Income or profit	Income or loss	Expenses or profit	Income or profit
10	The difference between the contribution and fixed costs is the	Net profit or loss	Net profit	Gross profit	Net loss	Net profit or loss

11	Fixed costs remain constantof level of activity.	Respective	Irrespective	Contributio n	Variable	Irrespective
12	Sales price and variation cost per unit remain the	same	Different	Equal	Similar	same
13	Cost volume profit relationship is fully employed to reveal the state of at various level of activity.	Assets	Liability	Profitabilit y	Liquidity	Profitability
14	fluctuates from time to time but in the ling run marginal cost are	Fixed cost	Variable cost	Total cost	Fixed Cost	Variable cost
15	remains the same, irrespective of the volume of production.	Total costs	Average costs	Marginal costs	Standard cost	Marginal costs
16	Fixed cost is from product.	Included	Excluded	Both a and b	Included and Excluded	Excluded
17	The management can take decision regarding to and tendering.	Pricing	Planning	co- ordinating	Controlling	Pricing
18	expenses remain unchanged at any level of operation	Fixed	Variable	semi- variable	Fixed and Variable	Fixed
19	expenses are those expenses which vary according to the units of production.	Fixed	Variable	semi- variable	Fixed and Variable	Variable
20	expenses are those which are partly constant and partly variable.	Fixed	Variable	semi- variable	Fixed and Variable	semi- variable
21	The difference between sales value and variable cost is known as	Profit	Contributio n	BEP	Fixed cost	Contributio n

	Contribution=	Sales –	Sales –	Sales +	Sales +	Sales –
22		variable cost	fixed cost	variable	variable	variable
				cost	cost	cost
23	Marginal cost is also	Period cost	Fixed cost	Volume	Prime cost	Volume
	known as			cost		cost
24	Fixed cost is also	Period cost	Fixed cost	Volume	Prime cost	Period cost
	known as			cost		
25	indicates the	p/v ratio	Contributio	Profit	Sales.	p/v ratio
	relation ship of		n			
	contribution to sales					
26	P/v ratio can be	Increase	Decreasing	-	Increasing	Increase
	improved by	sales once	selling	the variable	the value of	sales once
			price	cost	sale	
27	= sales X p/v	Sales	Profit	Contributio	Fixed cost	Contributio
	ratio.			n		n
28	Contribution minus	Sales	Loss	Variable	Fixed cost	Fixed cost
	profit is equal					
	to					
29	p/v ratio=	Profit	Profit		price	Profit
		volume ratio		volume	volume	volume
			ratio	ratio	ratio	ratio
	Limiting factor is also	Key factor	Production	price factor		Key factor
30	known as		factors		factor	
		TT: -14	TT: -14	TT: -14	1 +	TT: - 14
	The criteria to select a suitable limited factor	-	Highest	Highest reduction	lowest reduction	Highest contribution
21			profit	reduction	reduction	
31	1S	per unit of limited				per unit of limited
		factor				factor
	is the point at	Margin of	Break even	Fixed cost	BEP	Break even
32	which sales revenue is	safety	DICAK EVEII	TIACU COSt	DEI	DICAK EVEII
	equal to total cost.	Salety				
	Break even point in	Profit	p/v ratio	Selling	Marginal	Selling
	unit can be	1 10111	P' v rauo	price	cost	price
	ascertaining by			PILOC	0051	PILO
33	dividing the break					
	even sales value by					
	e, en suies vuide by					
_	Increase in fixed cost	No effect in	Higher	No effect	Lower profit	No effect in
34	=	bep	BEP	in p/v ratio		p/v ratio
35	Decrease in sales	No effect in	Higher	No effect	Lower profit	1
	Decrease in sales					

36	Increase in variable		Higher BEP	No effect	Lower profit	No effect in
37	cost = Decrease in selling		Higher	in p/v ratio No effect	Lower profit	p/v ratio Higher BEP
38	price = Decrease in sales	BEP No effect in	BEP Higher	in p/v ratio No effect	Lower profit	No effect in BEP
39	Is the angle at which sales line cuts the total cost line	BEP BEP	BEP Angle of incidence	in p/v ratio Contributio n	Variable cost	Angle of incidence
40	If the angle of incidence is at indicates that the profits are being made at higher rate	Large	Small	Neither large nor small	Medium	Large
41	is the difference between the total sales revenue and the sales at breakeven point.	Actual sales	margin of safety	Reducing the fixed costs	all the above	margin of safety
42	Margin of safety can be improved by	Increasing the volume of sales	Decreasing the selling price	Reducing he fixed costs	All the above	Reducing he fixed costs
43	margin safety indicates a favorable position of the business.	Large	Neither large nor small	Small	Medium	Large
44	Cost volume profit analysis may be applied for	Profit planning	Cost control	Decision making	All of these	All of these
45	Marginal cost is the sum of prime cost plus	Fixed cost	Variable cost	Variable overhead	Total cost	Variable overhead
46	At BEP contribution is equal to	Profit	Variable	Fixed cost	Sales	Fixed cost
47	· · · · · · · · · · · · · · · · · · ·	High	Low	Zero	Medium	Zero

48	Total fixed cost of a company is Rs 21,000 per share ; variable cost per unit is Rs.7 and its selling price per unit is Rs10. BEP in units is equal to units	3000	2100	7000	10,000	7000
49	p/v ratio of company a is 40% and company B is 50% state which company is likely to earn greater profits when the company have heavy demand for the product.		Company B	Can be determined	Company C	Company B
50	Margin of safety ratio=	Margin of safety/ actual sales	Margin of safety X actual sales	Margin of safety	Marginn of Safety Y	Margin of safety
51	What will be the selling price per unit, when variable cost per unit Rs.5.60 p/v ratio 60%?	6	8	14	10	14
52	Changes in profit between the two period Rs.10,000 changes in sales for the above periods rs.40,000 p/v ratio is	25%	40%	10%	50%	25%
53	is the difference between the sales and marginal cost.	Fixed cost	Contributio n	Profit	Sales	Contributio n
54	p/v ratio shows the relationship between.	Contribution and sales	Profit and sales	Profit and contributio n	Contributio n	Contributio n and sales

55	Sales Rs. 5,00,000 ; fixed cost Rs.1,50,000; profit Rs.1,00,000 p/v ratio is equal to	25%	75%	50%	80%	50%
56	Sales Rs. 1, 00,000; variable cost Rs.60, 000 p/v ratio is equal to	40%	75%	10%	100%	40%
57	Sales rs. 1, 00,000 break even sales Rs.40,000 margin of safety is equal to	60,000	40,000	1, 00,000	75,000	40,000
58	Sales are Rs.40, 000; variable cost Rs. 30,000 and fixed cost Rs. 15,000 here there will be	Profit of Rs 500	Loss of Rs. 5,000	Contributio n of Rs 25,000	Profit of Rs 25,000	Loss of Rs. 5,000
59	If fixed cost is Rs 20,000 p/v ratio is 40% the BEP will be	20,000	50,000	8,000	10,000	50,000
60	When fixed cost is Rs 10,000 and p/v ratio is 50% the break even point will be	20,000	40,000	50,000	90,000	20,000

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UNIT V

SYLLABUS

Budgetary Control: Definition – Objectives – Advantages – Limitations – Classification of Budgets – Time – Flexibility – Functions – Zero Based Budgets(ZBB) – Steps in Budgetary Control.

Definition

A Budget is a plan that outlines an organization's financial and operational goals. So a budget may be thought of as an action plan; planning a budget helps a business allocate resources, evaluate performance, and formulate plans. While planning a budget can occur at any time, for many businesses, planning a budget is an annual task, where the past year's budget is reviewed and budget projections are made for the next three or even five years.

The Institute of Cost and Management Accountants, London, gives the following definitions:

A budget is "a financial and / or quantitative statement, prepared and approved prior to a defined period of time, of the policy to be pursued during that period for the purpose of attaining a given objective. It may include income, expenditure and the employment of capital.*

Budgetary control

Budgetary control is the process of determining various budgeted figures for the enterprise for the future period and then comparing the budgeted figures with the actual performance for calculating variances, if any. First of all budgets are prepared and the actual results are recorded. The comparison of budgeted and actual figures will enable the management to find out description and take remedial measures at a proper time.

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The budgetary control is a continuous process, which helps in planning and co ordination.

Budgetary control. "The establishment of departmental budgets relating the responsibilities of executive to the requirements of a policy, and the continuous comparison of actual with budgeted results, either to secure by individual action the objectives of the policy, or to provide a firm basis for its revision."

Thus, a budget is a predetermined statement of management policy during a given period which provides a standard for comparison with the results actually achieved. Budgetary control is a system of controlling costs which includes the preparation of budgets, coordinating the departments and establishing responsibilities, comparing actual performance with that of budgeted and acting upon results to achieve maximum profitability. Budgeting is essentially concerned with planning, and can be broadly illustrated by comparison with the routine a ship's captain follows on each voyage.

Budget, Budgeting and Budgetary Control

A budget is a blue print of a plan expressed in quantitative--terms. Budgeting is a technique for formulating budgets. Budgetary control, on the other hand, refers to the principles, procedures and practices of achieving given objectives through budgets

Objectives of budgeting

- 1. to define the goal of the enterprises
- 2. to provide long and short period for attaining these goals
- 3. to co-ordinate the activities of different department.

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THE OBJECTIVES OF A BUDGETARY CONTROL

1. Definition of Goals: Portraying with precision, the overall aims of the business and determining targets of performance for each section or department of the business.

2. Defining Responsibilities: Laying down the responsibilities of each individual so that everyone knows what is expected of him and how he will be judged.

3. Basis for Performance Evaluation: Providing basis for the comparison of actual performance with the predetermined targets and investigation of deviation, if any, of actual performance and expenses from the budgeted figures. It helps to take timely corrective measures.

4. Optimum use of Resources: Ensuring the best use of all available resources to maximize profit or production, subject to the limiting factors.

5. Coordination:

Coordinating the various activities of the business and centralizing control, but also making a facility for the Management to decentralize responsibility and delegate authority.

6. Planned action: Engendering a spirit of careful forethought, assessment of what is possible and an attempt at it. It leads to dynamism without recklessness. It also helps to draw up long range plans with a fair measure of accuracy.

7. Basis for policy: Providing a basis for revision of current and future policies.

Importance of Budgetary Control

1. To Use the Forecasting Techniques

It is the importance of budgetary control that with this, we can use the forecasting techniques. Three departments work hard for calculating best estimation of future. Accounting department provides old data. Statistical department provides the tools and techniques of forecasting like probability, time series other sampling methods. Management department uses both department services to estimate the expenditures

and revenue of business under the normal conditions of business. So, no department say anything wrong in making of budget. So, it is necessary for business to use budgetary control techniques.

2. Fix the Responsibility of Departments

Department's scientific name is cost center. Manager makes budget and show the target of company and employees are given the powers to perform these targets. After checking the variance in budget through budgetary control process, manager can fix the responsibility of each department and its employees in a particular cost center.

3. Effective Utilization of Company's resources

Company can only effective use its resources, if someone stops misuse of money and fund of company. If budgetary control is used in company, at that time, no action will be taken before making budget. Responsible personal of company will be accountable for his action. Suppose, company has fixed the target of company's annual Sale is \$ 40,00,000 after participating sales manager in the setting of this sale budget. Now, after one year, if sale is just \$ 1,00,000. This sale manager must say what is the reason for not selling the product up to standard level of sale.

4. Excel ourself

After using budgetary control techniques in our business, we will definitely learn the skills of excel ourself_because we all know that a budget is based on estimates, it may or may not be true. But continually practise of making good budget and apply in organisation, manager can learn skills and experience for increasing the efficiency in every work of company. Meaning of this, manager will get positive approach through budgetary control.

Steps in budgetary control

1. Organization chart

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- 2. Budget Centre
- 3. Budget Committee
- 4. Budget Manual
- 5. Budget period
- 6. Key Factor

The management is efficient if it is able to accomplish the objective of the enterprise. It is efficient when it accomplishes the objectives with minimum effort and cost. In order to attain long-range efficiency and effectiveness, management must chart out its course in advance.

A systematic approach to facilitate effective management performances profitplanning and control, or budgeting. Budgeting is therefore an integral part of management. In a way, a budgetary control system has been described as a historical combination of a "goal – setting machine for increasing an enterprise's profits, and a goal-achieving machine for facilitating organizational coordination and planning while achieving the budgeted targets."

Objectives of Budgetary Control

Briefly, the main objectives of budgetary control are:

- 1. To combine the ideas of all levels of management in the preparation of the budget.
- 2. To coordinate all the activities of the business.
- 3. To centralize control.
- 4. To decentralize responsibility to each manager involved.
- 5. To act as a guide for management decision-making when unforeseeable conditions affect the business.
- 6. To plan and control income and expenditure so that maximum profitability is achieved.

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- 7. To direct capital expenditure in the most profitable direction.
- 8. To ensure that sufficient working capital is available for the efficient operation of the business.
- 9. To provide a yardstick against which results can be compared.
- 10. To show management where action is needed to remedy a situation.

Basic Conditions for the Successful Operation of Budgetary Control

1. Realistic Budget: The quality of the budget is very important for the successful operation of budgetary control. If should be realistic and operationally feasible. Flexible budget is normally a good budget as it take into consideration the dynamics of the business. It must be based on what is attainable, must suit the organizational facilities and complexities and must be flexible to accommodate the changing environment of the business.

2. Qualitative and Timely Reporting : Variances must be analyzed, interpreted and reported in a manner which is easily understandable. Reporting must be on time and bring out significant areas/points and be precise, simple and meaningful. Time is the essence of reporting and maintenance of time schedule enhances the value of reporting and leads to correction of many adverse events/trends which otherwise would have taken a heavy toll.

3. Management's Attitude: The management must have a positive attitude towards budgetary control. Any scheme of control is a discipline and regulation. Management must have faith and confidence in the scheme. Management must take keen interest in the scheme of budgetary control and render whole-hearted support and cooperation in making this a success.

Advantages of Budgetary Control

The following are some of the most significant advantages of budgeting :

1) Budgeting compels management to plan for the future. The budgeting process forces management to look ahead and become more effective and efficient in administering business operations. It instills into managers the habit of evaluating carefully their problems and related variables before making any decisions.

2) Budgeting helps to coordinate, integrate, and balance the efforts of various departments in the light of the overall objectives of the enterprise. This results in goal congruency and harmony among the departments.

3)Budgeting facilitates control by providing definite expectations in the planning phase that can be used as a frame of reference for judging the subsequent performance. Undoubtedly, budgeted performance is a more relevant standard for comparison than past performance is based on historical factors which are constantly changing.

4) Budgeting improves the quality of communication. The enterprise's objectives, budgets goals, plans, authority and responsibility and procedures to implement plans are clearly written and communicated through budgets to all individuals in the enterprise. This results in better understanding and harmonious relating among mangers and subordinates.

5) Budgeting helps to optimize the use of the firm's resources, both capital and human. It aids in directing the total efforts of the firm into the most profitable channels.

6) Budgeting increase the morale and thereby the productivity of the employees by seeking their meaningful participation in the formulation of plans and policies, bringing

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about a harmony between individual goals and the enterprise's objectives, and by providing incentives for better performance.

7) Budgeting develops profit-mindedness and cost consciousness.

8) Budgeting permits the management to focus attention on significant matters through budgetary reports. Thus, it facilitates management by exception and thereby saves the management's time and energy.

9) Budgeting measure efficiency and thereby enables self-evaluation by the management, it also indicates the progress made in attaining the enterprise's objectives.

Problems of the Budgeting System

The major problems in developing a budgeting system are:

- 1. Getting the support and involvement of all levels of management.
- 2. Developing meaningful forecasts and plans, especially the sales plan.
- 3. Inducing all individuals to get involved in the budgeting process, and gaining their full participation.
- 4. Establishing realistic objectives, procedures and standards of desired performance.
- 5. Applying the budgeting systems in a flexible manner.
- 6. Maintaining effective follow-up procedures, and adapting the budgeting system to changing circumstances.

Limitations of Budgetary Control

Management must consider the following limitations in using the budgeting system as a device to solve managerial problems:

1)Budgeting is not an exact science, its success depends upon the precision of estimates. Estimates are based on facts and managerial judgement. Managerial judgement can suffer from subjectivity and personal biases. The efficacy of budgeting thus depends upon the quality of managerial judgement.

2) A perfect system of budging cannot be organized in a short period. Business conditions change rapidly. Therefore, the budging system should be continuously adapted to changing circumstance. Budgeting has to be a continuous exercise, it is a dynamic process. Management should not lose patience, it should go on trying various techniques and procedures in developing and using the budgeting system.

3) A skillfully prepared budget system will not by itself improve the management of an enterprise unless it is properly implemented. For the success of the budgetary system, it is essential that it is understood by all, and that the managers and subordinates put in concerted effort for accomplishing the budget goals. All persons in the enterprise must be fully involved in the preparation and execution of budgets, otherwise budgeting will not be effective.

4) Budgeting is a management tool, a way of managing, not the management itself. The presence of a budgetary system should not make management complacent. To get the best results, management should use budgeting with intelligence and foresight, along with other managerial techniques. Budgeting assets management, it cannot replace management.

5) Budgeting will be ineffective and expensive if it is unnecessarily detailed and complicated. A budget should be precise in format and simple to understand, it should be flexible in application.

6) Budgeting will hide inefficiencies instead of revealing them if there is not evaluation system. There should be continuous evaluation of the actual performance. The standards should also be re-examined regularly.

Budget Period:

There is no "right" period for any budget. Budget periods may be short term and long term. If a business experiences seasonal fluctuations, the budget period will probably extend over one seasonal cycle. If this cycle covers, say two or three years, the long-term budget would cover the period, while the short-term budgets would perhaps be preparation on a monthly basis for control purpose. Short-term budgeting is usually costly to prepare and operate, while long-term budgeting may be considerably affected by unforeseen conditions. Budget periods frequently used in industry vary between one month and one year, the latter probably being the most commonly used as it fits in with the normally accepted accounting period. However, forecasts of much longer periods than a year may be used in the case of capital expenditure budgets, for example, which must be planned well in advance. A common practice in industry is to have a series of budget periods. Thus, the sales budget may cover the next five years, while production and cost budgets may cover only one year. These yearly budgets will be broken down into quarterly or even monthly periods. Where long-term budgets are operated it is usual to supplement them with short-term ones.

The key factor.

This is the factor whose influence must first be assessed in order to ensure that functional budgets are reasonably capable of fulfillment. The key factor-known variously as the "limiting" or "governing" or "principle budget" factor is of vital importance. It may not be the same for each budget period, as the circumstances may change.

It determines priorities in functional budget. Among the many key factors which may affect budgeting are the following:

- 1. Management
- 2. Lack of capital, restricting policy
- 3. Lack of knowhow

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- 4. Inefficient executives
- 5. Insufficient research into product design and methods.

Classification of Budgets

Though budgets can be classified according to various points of view the following bases of classification are generally in vogue:

- 1) Classification according to time factor Functional classification
- 2) Classification according to flexibility factor.

1) Classification according to time factor.

Long-term Budgets (2) Short-term Budgets (3) Current Budgets: They cover a period of a month or so and as shot-term budgets, they get adjusted to prevailing circumstances. Sometimes, within the framework of a short-term budget, there are quarterly plans which are prepared by recasting the budget for a still shorter period on the basis of the performance of the immediate past. In a way, these quarterly budgets are meant to be an elaboration of the annual budget.

Functional Classification

Sales Budget, (2) Production Budget, (3) Personnel Budget (4) Purchase Budget : Correlated with sales forecast and production planning, it deals with purchases that are required for planned production. purchase would include both direct and indirect materials and goods. (5) Research Budget (6) Cash Budget (7) Capital Budget (8) Master Budget (9) Plant utilization Budget (10) Office and Administration Budget. This budget represents cost of all administrative expenses, such as managing director's salary, staff salaries and expenses of office management like lighting and cleaning.

2) Classification According to Flexibility

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Fixed Budget: This is budget in which targets are rigidly fixed. Such budgets are usually prepared from one to three months in advance of the fiscal year to which they are applicable. Thus, twelve months or more may elapse before figures forecast for the December budget Are used to measure actual performance. Many things may happen during this intervening period and they mayh make the figures go widely out of the line with the actual figures. Thought it is true that a fixed, or static budget as it is sometimes called, can be revised whenever the necessity arises, it smacks of rigidity and artificially so far as control over costs and expenses are concerned. Such budgets are preferred only where sales can be forecast with the greatest of accuracy which means, in turn, that the cost and expenses in relation to sales can be quite accurately ascertained.

Flexible Budget

A flexible budget is a budget that adjusts or flexes for changes in the volume of activity. The flexible budget is more sophisticated and useful than a static budget, which remains at one amount regardless of the volume of activity.

SALES BUDGET

This is a forecast of total sales expressed and incorporated in quantities and / or money. A sales budget may be prepared by expressing turnover under any one or combination of the following:

- 1. Product or product group;
- 2. Territories, areas and countries;
- 3. Types of customers, e.g., National, Government, export, home, wholesales, or retails;
- 4. Salesman, agents or representatives, and
- 5. Period; such as quarters, months, weeks, etc.

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A sales budget may be prepared with the help of any one or more of the following methods.

Analysis of past sales: Analysis of past sales for a number of years, say 5 to 10 years, viz. long-term trend, seasonal trend, cyclical trend, sundry other factors. The long-term trend represents the movement of the fortunes of a business over many years. The seasonal trend may affect many types of business and hence this factor must be taken into account when studying figures for consecutive months over a number of years. The cyclical trend represents the fluctuations in the business activity due to the effect of the trade cycle. In order to study the cyclical trend it is desirable to disregard the effects to the long-term and seasonal trends. Sundry factors include, such as a strike in the industry or a serious fire or flood. From such analysis it will be possible to suggest future trends. In analyzing such sales, considerable help can be obtained from statistical reports produced by the trade units and commercial intelligence units, government publications, etc.

Studying the impact of factors affecting sale: Any change in the company policy or method should always be considered. For example, introduction of special discounts special salesmen, a new design of the product, new or additional advertising campaigns, improved deliveries, after-sales service should have some market effect on a sales budget. While preparing such forecasts, the sales manager must consider the opinion of divisional managers and other sales staff, the budget officer and the accountant. It will be observed that the preparation of a sales budget involves many factors and calls for a high degree of knowledge of conditions, and if ability to deduce fro the known facts and various estimates the probable course of sales budget is prepared first. If production is the key factor, the production budget should be built up first and the sales budget must be drawn up within up within the limits imposed by the production budget.

Illustration 1

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AB Co. Ltd. manufactures two products, A and B, and sells them through two divisions – North and South. For the purpose of submission of sales budget to the budget committee, the following information has been made available.

Product	North	South
А	4,000 at Rs. 9	6,000 at Rs. 9
В	3,000 at Rs. 21	45,000 at Rs. 21
Actual sales of the current	vear were	

Actual sales of the current	t year were.	
Product	North	South
A	5,000 at Rs. 9	6,000 at Rs. 9
В	2,000 at Rs. 21	4,000 at Rs. 21

Market studies reveal that the product A, is popular but under-period. It is observed that if the price of A is increased by Re. 1 it will still find a ready market. On the other hand, B is over-period to customers and the market could absorb more if the sales price of B is reduce by Re. 1. The management has agreed to give effect to the above price changes.

From the information relating to these price changes and reports from salesman, the following estimates have been prepared by divisional managers. Percentage increase in sales over current budget is:

Product	North	South				
A	+10%	+5%				
В	+20%	+10%				
Additional sales above the estimated sales of divisional managers are:						
Product	North	South				
А	600 units	700 units'				

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В	400 units	500 units
Prepare a Sales Budget		

Solution

Sales Budget

A B Co. Ltd.

For the Year : 19 x 7

Prepared by
Checked by
Submitted on

Division	Produ		Bud	lget for			Budget	for	Act	ual sales
	ct		Futi	ure			Current	Period	for	Current
			Peri	od Unit			Unit	Price	Peri	od Unit
			Pric	e Value			Value		Pric	e Value
		Qty	Rs	Rs.	Qty	Rs	Rs.	Qty	Rs	Rs.
									•	
North	А	5,000	10	50,000	4,000	9	36,000	5,000	9	45,000
	В	4,000	20	80,000	3,000	21	63,000	2,000	21	42,000
Total		9,000		1,30,00	7,000		99,000	7,000		87,000
				0						
South	А	7,000	10	70,000	6,000	9	54,000	7,000	9	63,000
	В	6,000	20	1,20,00	5,000	21	1,05,00	4,000	21	84,000
				0			0			
	1	1	1	l	l	1	1	L	1	1

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Total		13,00		1,90,00	11,00		1,59,00	11,00		1,47,00
		0		0	0		0	0		0
Total	А	12,00	10	1,20,00	10,00	9	90,000	12,00	9	1,08,00
		0		0	0			0		0
(Summar	В	10,00	20	2,00,00	8,000	21	1,68,00	6,000	21	1,26,00
y)		0		0			0			0
Total		22,00		3,20,00	18,00		2,58,00	18,00		2,34,00
		0		0	0		0	0		0

Production Budget

Like the sales budget, the production budget is built up in terms of quantities and money. The quantities are entered at the beginning and, when the remainder of the budget have been built up and the cost of production calculated, the costs are entered to compile a production cost budget. In preparing the production budget, consideration should be given to the following:

Principal budget factor, e.g., if sales be the budget factor then it should be the sales budget; otherwise other budgets.

Production planning and determination of optimum factory capacity.

The opening stocks, and stocks required to be carried at the end of the period.

The policy of the management regarding manufacture or purchase of components.

The production budget may be classified under the following heads:

- 1. Products
- 2. Manufacturing department
- 3. Months, quarters, etc.

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ABC Col. Ltd.

(Production Budget (in units)

Items	А	В	For the year
			Remarks
Sales during the period		12,000	10,000
Required stock on 31 st Dec.		1,000	2,000
Total		13,000	12,000
Less Estimated Opening stock		1,000	1,000
Estimated production		12,000	11,000

Purchase Budget

A purchase Budget gives the details of the purchase which must be made to meet the needs of the business. It includes all items of purchase. Such as raw materials, indirect materials and other equipments. The purchase budget for raw materials is the most important and the following factors are required to be considered in preparing this budget.

Opening and closing stocks.

Unfulfilled orders at the beginning of the budget period.

Storage space, economic buying quantity, and financial resources. The prices to be paid.

Illustration 5

The following information regarding the stocks of materials required for the production programme of Ramesh Limited is available.

Materials	Estimated	Estimated Stocks
	Consumption	(in kg)
	during 1983-84 (in	

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	kg)			
	In 1 st	July 1983 On 30th June	e 1984	
AB	9,03,000	20,000	17,000	
GH	6,90,000	10,000	20,000	
XY	5,47,000	30,000	33,000	

Collating the details given above with the information contained in the Materials Budget, prepare the Purchase Budget of Ramesh Limited.

Solution

Ramesh Limited

Purchase Budget

(1983-84)

Particulars	AB	GH	XY
	kg.	kg	kg
Estimate Consumption	9,03,000	6,90,000	5,47,000
Add: Stock required on 30-06-84	17,000	20,000	33,000
Total requirements	9,20,000	7,10,000	5,80,000
Less: Estimated stock on			
1 st July 1983	20,000	10,000	30,000
Quantity to be purchased	9,00,000	7,00,000	5,50,000
Price per kg (Estimate	Re. 1	50 p	40 p
Estimated cost of purchase			
of materials (Rs)	9,00,000	3,50,000	2,20,000

Preparation of Cash Budget

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A complete system of budgetary control makes the construction of cash budget easy. It is one of the functional budgets which is prepared along with other budgets. There are three recognized methods of preparing a cash budget.

- 1. The Receipts and Payment Method;
- 2. The Adjusted Profit and Loss Method; and
- 3. The Balance Sheet Method.

Steps to be adopted

Cash Receipts Forecast; Cash receipts from sales, debtors, income from sales of assets and investments and probable borrowings should be forecast and brought into cash budget. Any lag in payment by debtors or by others shall be considered for ascertaining further cash inflows.

Cash requirements forecast: Total cash outflows are taken out from operating budgets for the elements of cost, and from capital expenditure budget for the purchase of fixed assets. Adjustments are to be made for any lag in payments.

Care must be taken to ensure that outstanding or accruals are excluded from the cash budget since this method is based on the concept of actual cash flows.

Illustration 6

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A newly started company Quick Co. Ltd., wishes to prepare cash budget from January. Prepare a cash budget for the first six months from the following estimated revenue and expenditure.

Month	Total Sales	Material	Wages	Production	Selling and
				Overheads	distribution
					Overheads
	Rs.	Rs.	Rs.	Rs.	Rs.,
Jan.	20,000	20,000	4,000	3,200	800
Feb.	22,000	14,000	4,400	3,300	900
Mar.	24,000	14,000	4,600	3,300	800
Apr.	26,000	12,000	4,600	3,400	900
May.	28,000	12,000	4,800	3,500	900
June	30,000	16,000	4,800	3,600	1,000

Cash balance on 1st January was Rs. 10,000. A new machine is to be installed at Rs. 30,000 on credit, to be repaid by two equal installments in March and April.

Sales commission @ 5% on total sales is to be paid within the month following actual sales. Rs. 10,000 being the amount of 2^{nd} call may be received in March. Share premium amounting to Rs. 2,000 is also obtainable with 2^{nd} call.

Period of credit allowed to suppliers	2 months
Period of credit allowed to customers	1 month
Delay in payment of overheads	1 month
Delay in payment of wages	1⁄2 month

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Assume cash sales to be 50% of total sales.

Quick Co. Limited

Cash Budget

For the period January to June 1984

Details	Jan.	Feb.	Mar.	Apr.	May.	June
	Rs.	Rs.	Rs,	Rs,	Rs,	Rs.
A Balance b/d	10,000	18,000	29,000	20,000	6,100	8,800
B Receipts:	10,000	11,000	12,000	13,000	14,000	15,000
Cash Sales (50%)						
Debtors	-	10,000	11,000	12,000	13,000	14,000
Capital	-	-	10,000	-	-	-
Share premium	-	-	2,000	-	-	-
(A + B) Total	20,000	39,000	64,800	45,000	33,100	37,800
C Payments Material	-	-	20,000	14,000	14,000	12,000
Wages	2,000	4,200	4,500	4,600	4,700	4,800
Production	-	800	900	800	900	900
Overheads						
Commission	-	1,000	1,100	1,200	1,300	1,400
Machinery	-	-	15,000	15,000	-	-
(C) Total	2,000	9,200	44,800	38,900	24,300	22,600
Balance						
(A+B+C)	18,000	29,800	20,000	6,100	8,800	15,200

Flexible Budgets

In those industries where the pattern of demand is stable, a fixed budget may be adequate, especially where the budget period is comparatively short. In such businesses it is possible to forecast sales with a considerable degree of accuracy. There are many undertakings where stable conditions are absent. In such concerns fluctuations in output might lead to violent deviations from the budget. In such concerns it is usual to adopt the flexible budgetary technique. A flexible budget is a budget which is designed to change in accordance with the level of activity actually attained. If flexible.

The owner of a car knows that the more he uses it per year the more it costs him to operate it. He also knows that the more he uses his car the less its costs per running metres. The reason for this lies in the nature of the expenses, some of which are fixed while others are variable or semi variable. Insurance, taxes, registration, and garaging are fixed costs; they remain the same whether the car is operated 1,000 or 2,000 kilometers. The costs of tyres, petrol oil, and repair are variable costs and depend largely upon the kilometers driven. Obsolescence and depreciation result in a combined type of cost that, although fluctuating to some degree upon the usage of the car, is semi-variable for it does not vary directly with the usage. The cost of operating the car per kilometer depends on the number of kilometers the car is used. The mileage constitutes the basis for judging the activity of the automobile. If the owners prepares an estimate of total cross and compares his actual expanses with the budget in keeping his expenses within the allowed limits, unless he takes the mileage factor into account.

Originally, the flexible budget idea was applied principally to the control of departmental factory overhead. In recent years, however, the idea has been applied to the entire budget so that production budgets as well as selling and administrative budgets are prepared on a flexible basis. The construction of a flexible budget is identical with that of a fixed budget, except that a budget is calculated for each volume ranging from a possible 60 per cent to 100 per cent of capacity. When actual figures are available estimate previously determined for the level attained are compared with actual

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results, and the differences are noted. This end-of period comparison is used to measure the performance of each department head. It is this readymade method of comparison that makes the flexible budget a valuable instrument for cost control. The flexible budget assists in evaluating the effects of varying volumes of activity on profits and on cash position.

Illustration 9

The following data are available in a manufacturing company for the half-year period ending 30th June, 1984.

Fixed expenses:	Rs. (Lakhs)	
Wages and salaries	8.4	
Rent, rates, and taxes	5.6	1
Depreciation	7.0	
Sundry administrative expenses	8.9	
		29.9
Semi-variable expenses @ 50% of		
capacity -		
Maintenance and repairs	2.5	
Indirect labour	9.9	
Sales department salaries etc.,	2.9	
Sundry administrative expenses	2.6	
		17.9
Variable expenses: @ 50% of capacity -		

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Material	24.0	
Labour	25.6	
Other expenses	3.8	
		53.4

It is assumed that fixed expenses remain constant for all levels of production' semivariable expenses remain constant between 45% and 65% of capacity, increasing by 10% between 65% and 80% of capacity and 20% between 89% and 100% of capacity.

Sales at the various levels are:

60% capacity	Rs. 100.00 lakhs
75% Capacity	120.00 Lakhs
90% Capacity	150.00 Lakhs
100% Capacity	170.00 Lakhs

Prepare a flexible budget for the half-year and forecast the profits at 60%, 75%, 90% of capacity.

Solution

Flexible Budget for the Half-Year Ending 30th June 1984

(showing the forecast of profit of different levels)

	Operating of	capacity			
Elements of cost	50%	60%	75%	90%	100% Standard
A Fixed expenses:					

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Wages and salaries	8.4	8.4	8.4	8.4	8.4
Rent, rates and taxes	5.6	5.6	5.6	5.6	5.6
Depreciation	7.0	7.0	7.0	7.0	7.0
Sundry expenses	8.9	8.9	8.9	8.9	8.9
	29.9	29.9	29.9	29.9	29.9

B. Semi-variable exp:					
Maintenance and repairs	2.5	2.5	2.75	3.00	3.00
Indirect labour	9.9	9.9	10.89	11.88	11.88
Sales Dept. salaries	2.9	2.9	3.19	3.48	3.48
Sundry Adm. expenses	2.6	2.6	2.86	3.12	3.12
	17.9	17.9	19.69	21.48	21.48
C. Variable expenses:					
Material	24.0	28.80	36.00	43.20	48.0
Labour	25.6	30.72	30.47	46.08	51.2
Other expenses	3.8	4.56	5.70	6.84	7.6
	53.4	64.08	80.17	96.12	106.8
Total cost of Production	101.2	111.88	129.76	147.50	158.18
(i.e. Total of A, B and C) Profit		-11.88	-9.76	+2.50	+11.82
(+) of Loss (-)					
Sales		100.00	120.00	150.00	170.00

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Less: Bills Payable	=	10,000			
Sundry Creditors	=	Rs. 1,91,66	7		

Human Factors in Budgeting

If a budget program is to be successful, it must have the complete acceptance and support of the persons who occupy key management positions.

Zero Based Budgeting (ZBB)

Zero based budgeting (ZBB) is an alternative approach that is sometimes used particularly in government and not for profit sectors of the economy.

Preparation of different budget

A standing budget committee will usually be responsible for overall policy matters relating to the budget program and for coordinating the preparation of the budget itself.

Master Budget

The master budget is a summary of company's plans that sets specific targets for sales, production, distribution and financing activities. It generally culminates in a cash budget, a budgeted income statement, and a budgeted balance sheet.

Sales Budget

A sales budget is a detailed schedule showing the expected sales for the budget period; typically, it is expressed in both dollars and units of production. An accurate sales budget is the key to the entire budgeting in some way. If the sales budget is sloppily done then the rest of the budgeting process is largely a waste of time.

Production Budget

The production budget is prepared after the sales budget. The production budget lists the number of units that must be produced during each budget period to meet sales needs and to provide for the desired ending inventory.

Inventory Purchases Budget for a Merchandising Firm

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Manufacturing firms prepare production budget but merchandising firms prepare merchandising purchase budget instead. Merchandising purchase budget shows the amount of goods to be purchased from its suppliers during the period.

Material Budgeting | Direct Materials Budget

Direct materials budget is prepared after computing production requirements by preparing a production budget. Direct materials budget or materials budgeting details the raw materials that must be purchased to fulfill the production requirements and to provide for adequate inventories.

Labour Budget

The direct labor budget is developed from the production budget. Direct labor requirements must be computed so that the company will know whether sufficient labor time is available to meet the budgeted production needs.

Manufacturing Overhead Budget

The manufacturing overhead budget provides a schedule for all costs of production other than direct materials and direct labor.

Ending Finished Goods Inventory Budget

After preparing sales budget, production budget, direct materials budget, direct labor budget, and manufacturing overhead budget the management has all the data needed to calculate unit product cost. This calculation is needed for two reasons: first, to determine cost of goods sold on the budgeted income statement; and second, to know what amount to put on the balance sheet inventory account for unsold units. The carrying cost of unsold units is calculated on the ending inventory finished goods budget.

Selling and Administrative Expense Budget

Selling and administrative expense budget lists the budgeted expenses for areas other than manufacturing.

Cash Budget

Cash budget is a detailed plan showing how cash resources will be acquired and used over some specific time period.

Budgeted Income Statement

The budgeted income statement is one of the key schedules in the budget process. It shows the company's planned profit for the upcoming budget period, and it stands as a benchmark against which subsequent company performance can be measured.

Budgeted Balance Sheet

The budgeted balance sheet is developed by beginning with the current balance sheet and adjusting it for the data contained in other budgets.

International Aspects of Budgeting

A multinational company faces special problems when preparing a budget. The problems arise because of fluctuations in foreign currency exchange rates, the high inflation rates found in some countries, and local economic conditions and governmental policies that affect everything from labor costs to marketing practices.

Steps involved in the Budgetary Control Techniques:

- 1. State the objectives clearly.
- 2. Formulating the necessary plans to ensure that the desired objectives are achieved.
- 3. Translating the plans into budgets.
- 4. Relating the responsibilities of executives to the budgets.
- 5. Continuous comparison of the actual results with that of the budget & the ascertainment of deviations (Positive/negative).
- 6. Investigating into the deviations & establishing the causes.

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- 7. Presentation of information to the management relating the variances to individual responsibilities.
- 8. Corrective action of the management to present recurrence of variance

KARPAGAM ACADEMY OF HIGHER EDUCATION Management Accounting POSSIBLE QUESTIONS UNIT - V PART - A

	PUSSIBLE	PARI - A				
S.NO	QUESTION	OPTION1	OPTION2	OPTION3	OPTION4	ANSWER
1	Budgetary control is a of costing.	Mental	Technique	Kind	Analysis	Technique
2	The process of preparing a budget is known	Budget	Budgeting	Budgetary control	Budget Cost	Budgeting
3	The explanation of MBE is	Manageme nt by exception	Managemen t, botany, economics	Master of business economics	Management by Objectives	Management by exception
4	MBO means	Manageme nt by exception	Managemen t by organization	nt by	Master of business economics	Management by objectives
5	Budgetary control and budgets are the	same	Different	Variable	Equal	same
6	Budgetary control relates to	Persons	A product	Both a and b	Producer	Persons
7	Both budgetary control and systems are interrelated.	Marginal costing	Standard costing	Budgeting	Break Even	Standard costing
8	The is the document which lays down the details of the budgeting organization and procedures.	Budget manual	Budget committee	Budget procedure	Budget Cost	Budget manual
9	The period covered by a budget is known as	Budget committee	Budget period	Budget manual	Budget Cost	Budget period
10	Generally the budget period is	two years	three years	one year	five years	one year

11	In most of the companies, the key factor	Production	Finance	Sales	Cost	Sales
12	budget is one among the functional budgets.	Sales	Capital	Fixed	Responsibility	Sales
13	budget is concerned with estimating the probable Output of each product in the forth coming budget period	Sales	Production	Cash	Advertising	Production
14	refers to the quantity of work that can be performed in one hour.	Standard quantity	Standard hour	Actual hour	Machine Hour	Standard hour
15	Zero base budgeting overcomes the weakness of	Conventio nal budgeting	Sales budget	Production budget	Cash Budget	Conventional budgeting
16	A master budget is also known as all functional budgets.	Summary	Production	Sales	Finance	Summary
17	A fixed budget is useful only when the actual level of activity corresponds to the levels of activity.	Actual	Budgeted	Manual	Financial	Budgeted

18	A is a department or section of the organisation defined for the purpose of budgetary control.	Budget committee	Budget centre	Budget manual	Budgeting	Budget centre
19	is a factor whose influence effects all other budgets.	Key factor	Production	Sales	Finance	Key factor
20	A budget is one which is established for use unaltered over a long period of time	Basic	Current	Sales	Production budget	Basic
21	is a plan of estimated receipts and payment of cash for the budget period	Cash budget	Sales budget	Production budget	Conventional Budget	Cash budget
22	budget is one which incorporate all functional budgets.	Master	Flexible	Sales	Finance	Master
23	budget is a budget which is designed to change in accordance with the level of activity actually attained.	Master	Flexible	Fixed	Variable	Flexible

	budget is a	Master	Flexible	Fixed	Variable	Fixed
24	budget which is designed to remain unchanged irrespective of the level of activity actually attained.					
25	The difference between the budgeted figures and actual figures is	Variance	Profit	Sales	Cost	Variance
26	ration gives the percentage of actual hours worked to the budgeted hours.	Capacity	Efficiency	Activity	Effect	Capacity
27	Sales budget is	a functional budget	Expenditure budget	Master budget	Production budget	a functional budget
28	The difference in fixed cost and variable cost is a special significance in the preparation of	Cash	Static budget	Flexible budget	Production budget	Flexible budget
29	The budget which is prepared first of all is	Budget for key factor	Cash budge	Master budget	Flexible budget	Budget for key factor

30	A budge manual contains a summary of	budgets	Ratios	The responsibil ity of the persons engaged in the routine of and the forms and records required for budgetary control.		The responsibility of the persons engaged in the routine of and the forms and records required for budgetary control.
31	Key factor is also known as factor	principal	Limiting	Governing	normal	principal
32	The budgets are proper for a given level of activity, the budget is prepared before the beginning of a financial year.	Flexible	Fixed	Sales	Master	Flexible
33	A factor which influences all other budget	Limiting factor	Production factor	Master budget	Production budget	Limiting factor
34	budget is a plan of estimated receipts and payments of cash for the budget period.	Cash	Sales	Production	Raw material	Production
35	Before the implementation of the master budget it must be approved by the	Budget committee	Board of directors	Share holders	Government	Budget committee

36	Both budgetary control and systems are inter related .	Marginal costing	Budgeting	Standard costing	Process costing	Budgeting
37	is based on prospective approach	Performanc e budgeting	Flexible budgeting	Zero base budgeting	Master Budget	Performance budgeting
38	Zero base budgeting technique was first used in America in	1960	1962	1968	1970	1962
39	Zero base budgeting was originally developed by	Peter a. pyre	Brown & Howard	ICMA	ICWA	Peter a. pyre
40	Ratios which are used to compare, to control and to appraise the operations of the management are known as	Control ratios	Current ratios	p/v ratio	Profitability Ratios	Control ratios
41	Budgetary control is a system which uses budget as a means of and controlling.	Planning	Staffing	Co- Ordination	Organizing	Planning
42	A budget is a plan of action for a period.	Previous	Future	Both a and b	Present	Future
43	A budget guides every manager in the process.	Planning	Staffing	Organizing	Decision making	Decision making
44	In budgetary control costs are recorded	Actual	Variable	Fixed	Semi - variable Cost	Actual

45	Budgeted costs are compared with	Actual costs	Variable costs	Fixed costs	Semi - variable Cost	Actual costs
46	Activities of various departments are	Planned	Organized	Co- Ordination	Decision	Co-Ordination
47	The of a business must be defined clearly	Objectives	Delegation	Co- Operation	Flexibility	Objectives
48	Budgeting must have the complete of the top management.	Objectives	Delegation	Co- Operation	Flexibility.	Co-Operation
49	Employee should be educated about the merits of systems.	Budgeting	Budgetary control	Budget	Budget Cost	Budgetary control
50	The employees must be to improve their efficiency.	Motivation	Reporting	Follow up action	Cost of operation	Motivation
51	A good budgetary control system should include	Motivation	Reporting	Follow up action	Cost of operation	Follow up action
52	The of budgetary control system should be considered	Motivation	Reporting	Follow up action	Cost of operation	Cost of operation
53	A good organization must be developed in order to achieve benefits.	Maximum	Minimum	Both a and b	Average	Maximum
54	The must should not be an expensive one.	Motivation	Reporting	Follow up action	Cost of operation	Cost of operation

55	A may be a department or section of a department or any other part of the department.	Budgetary control	Budges centers	Budget manual	Budget Cost	None of these
56	Budgets centers is also necessary for purpose	Control	Co-ordinate	Motivate	Organize	Control
57	The head or a budgetary control organisation is designed as the	Budgetary control	Budges centers	Budget officer	Budget manual	Budget officer
58	is a written record.	Budgetary control	Budges centers	Budget officer	Budget manual	Budget manual
59	The budget officer is assisted by a	Budgetary control	Budges centers	Budget committee	Budget period	Budget committee
60	The may be short term or long term.	Budgetary control	Budget centers	Budget committee	Budget period	Budget period

Register No.....

15CMU601]

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed University Established Under Section 3 of UGC Act 1956)

COIMBATORE-21

FIRST INTERNAL EXAMINATION-JANUARY 2018

(For the candidate admitted 2015 onwards)

III. B.COM

Sixth Semester

MANAGEMENT ACCOUNTING

Time: 2 Hours

Maximum: 50 Marks

PART-A (20*1=20 Marks)

. .

An	swer All the Questions
1. Management accounting involves	
a) Recording of costs	b) Recording of transaction
c) Preparation of accounts	d) Analysis and interpretation of data
2. Management accounting is also ki	nown as
a) Cost accounting	b) Financial accounting
c) Corporate accounting	d) Decision accounting.
3. Management accounting functions	s are
a) Complementary in nature	b) Contradictory nature
c) Neutral in effect	d) None of the above
4. Management accounting provides	valuable services to management in performing.
a) Planning functions	b) Controlling functions
c) Co-ordinating functions	d) All managerial functions.
5 is also known as Manag	gement oriented accounting.
a) Management accounting	b) Cost accounting
c) Financial accounting	d) Corporate accounting
6is concern with future.	
a) Forecasting	b) Supply information
c) Increase in efficiency	d) Planning
7 provides information to	the management and not decisions.
a) Forecasting	b) Supply information
c) Increase in efficiency	d) Receiving information

8attempts to examine the 'cause' and 'effect' of different variables.								
a) Techniques and concepts b) Cause and effect analysis								
c) No fixed norms d) Assist management								
9. The primary objective of is to enable the management to maximize or								
minimize losses								
a) Cost accounting b) financial accounting								
c) Management accounting d) Corporate Accounting								
10 may be regarded as the life blood of a business								
a) Working capital b) Current asset c) Fixed asset d) Current liability								
11. There are concepts of working capital								
a) One b) Two c) Three d) Four								
12. The concepts of working capital								
a) Gross concept b) Net concept c) Both a and b d) Working capital								
13. The term represent the difference between current assets and current liabilities								
a) Gross working capital b) Net working capital								
c) Both a and b d) Working capital								
14. The networking capital can be								
a) Positive b) Negative c) positive or negative d) positive and negative								
15. Making prompt payment is a base to create and maintain								
a) Cash discount b) Good will c) Ability to face crisis d) Credit								
16 of the firm can not work without adequate working capital.								
a)Current assets b) Total assets c) Fixed assets d) Fluctuating Assets								
17. A sound system of enables a concern to pay regular dividends to its investors.								
a)Assets b)Liabilities c)Working capital d)Stock								
18. The manager is always interested in obtaining the working capital at the								
right time, at a cost and the best favourable terms.								
a) Financial b) Marketing c) Sales d) Purchase								
19. The level cannot be expected to reduce at any time.								
a) Minimum b) Maximum c) Medium d) Equal								
20 is the life blood of a business.								
a) Assets b) Liabilities c) Working capital d) Loan								

PART – B (3X10=30)

Answer ALL the Questions

21. a. Define Management Accounting. How does Management Accounting differ from Financial Accounting?

(**OR**)

b. Explain the Advantages and limitations of Management Accounting?

22. a. From the following summarized Balance Sheet of Shri Ram Ltd., prepare a Schedule

of Changes in Working Capital and a Statement of Sources and application of funds :

Liabilities	2010	2010	Assets	2010	2010
	(Rs.)	(Rs.)		(Rs.)	(Rs.)
Share Capital	4,00,000	5,75,000	Plant	75,000	1,00,000
Creditors	1,06,000	70,000	Stock	1,21,000	1,36,000
Profit &Loss A/c	14,000	31,000	Debtors	1,81,000	1,70,000
			Cash	1,43,000	2,70,000
Total	5,20,000	6,76,000		5,20,000	6,76,000
	1. I	(0)	P)		

(**OR**)

b. Discuss the managerial uses of Funds Flow Statements? What are its limitations?

23. a. from the following balance sheet of Mr.Sridhar Prepare a funds flow statement.

Liabilities	30 th June	30 th June	Assets	30 th June	30 th June
	2015	2015		2015	2015
	(Rs.)	(Rs.)		(Rs.)	(Rs.)
Creditors	18000	20500	Cash	5000	2300
Bank loan	15000	19500	Debtors	17500	19200
Capital	77000	78000	Stock	12500	11000
			Land	10000	15000
			Building	25000	27500
			Machinery	40000	43000
Total	110000	118000	Total	110000	118000

Drawing of Mr.Sridhar during the year was Rs.20000. Depreciation charges on machinery was Rs.4000.

(OR)

b. Explain the items of sources and application of funds.