



UNIT-I

# PART-A

1. What is management accounting?

Management accounting provides information to the management to use it as a base for decision making. The emphasis of management accounting is to redesign accounting in a manner which is helpful to the management in framing the policies and control of their execution.

2. Define management accounting.

Batty's definition describes" Management Accounting as a combination of various accounting systems and techniques which are designed to meet the needs of the management.

3. Define Accounting.

Eric L.Kohler defines: the procedure of analysis, classification and recording transactions in accordance with a preconceived plan for the benefit of (a) providing a means by which an enterprise can be conducted in an orderly fashion (b) establishing a basis for reporting the financial condition of an enterprise and the results of its operations"

# PART-B

1. What are the characteristics of management accounting?

i) Providing financial information:

The main emphasis of management accounting is to provide financial information to management.

ii)Cause and effect analysis:

Financial accounting confines itself to presentation of P& L account and balance sheet. Management accounting analyses the cause and effect of the facts and figures thereon

iii) Use of special techniques and concepts:

Management accounting employs special techniques like standard costing, budgetary control, marginal costing, fund flow responsibility accounting etc.



iv) Decision making:

Main objective of management accounting is to provide relevant information to management to take various important decisions.

v) No fixed conventions:

Financial accounting has various established principles and rules preparing the financial accounts. Management accounting has no such fixed rules.

2. What is the scope of Management accounting?

(i) Financial accounting:

Financial accounting deals with financial aspects by preparation of profit and loss account and balance sheet. Management accounting rearranges and uses the financial statements.

ii) Cost accounting: cost accounting is an essential part of management accounting. Cost accounting through its various techniques reveals efficiency of various divisions.

iii) Budgeting and forecasting: Budgeting is setting targets by estimating expenditure and revenue for a given period. Targets are fixed for various departments and responsibility is pinpointed for achieving the targets.

iv) Inventory control: This includes planning, coordinating and controlling inventory from the time of acquisition to the stage of disposal.

v) Statistical Analysis: In order to make the information more useful statistical tool and applied. These tools include charts, graphs, diagrams, index numbers etc.

3. Objectives and functions of management accounting:

i) Presentation of data:

Traditional profit and loss account and the balance sheet are not analytical for the decision making.

ii) Aid of planning and forecasting: Management accounting is helpful to the management in the process of planning through the techniques of budgetary control and standard costing.



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iii) Help in organizing: Organizing is concerned with establishment of relationship among different individuals in the form. It included delegation of authority and fixing responsibility.

iv) Decision making: Management accounting provides comparative data for analysis and interpretation for effective decision making and policy formulation
v) Effective control: Standard costing and budgetary control and integral part of management accounting. These techniques lay down targets; compare performance, adherence to plans and progress of various sections of the organization.

#### PART-C

1. What are the tools and techniques of management accounting

i) Financial policy and accounting: Every business concern has not plan for its sources of funds. The fund can be raised out of different sources.Utlising a particular source depends on cost of servicing the source, terms of repayment in case of borrowings.

ii) Analysis of financial statement:

Analysis of financial statements is means to classify and present the data in a manner useful to the management.

iii) Historical cost accounting:

Costs are recorded after being incurred for comparison with predetermined. The actual are compared with budgets to reveal deviations and individuals responsible for the same.

iv) Standard costing: Standard costing is an a important technique of cost control. In standard costing the costs are determined in advance by systematic analysis.

v) Marginal costing: Under marginal costing, the cost of products is divided into fixed and variable portions. While the variable costs are taken for decision making, fixed costs are treated as period costs to be charged to costing profit and loss account.

vi) Management Information system: An important function of management accounting is reporting. This function has improved considerably with the developing of electronic data processing data.





i)The purpose of financial accounting is to ascertain profit and loss by preparing profit and loss and balance sheet

- ii) Financial accounting records transactions as when they occur .
- iii) Financial accounting is historical and ojective
- iv) Financial accounting analyses data of the business as a whole

v) Financial accounting provides consolidated information of the whole enterprise

Management accounting

- i) The purpose of management accounting is to provide information to the management for decisions making on internal operations.
- ii) management accounting is concerned with future plans and operations
- iii) management accounting evaluates the performance of different department, divisions and as per the requirement of the management
- iv) the management accountant has flexibility in following different standards set by the management
- v) management accounting is of voluntary adoption y the management to function effectively
- vi) Prompt quick reporting is the main feature of management accounting
- vii) management accounting does not have rigid principles
- viii) the management accounting statements and reports are means for internal purpose and they are not subject to audits



#### UNIT-II

#### PART-A

## 1. What are financial statements?

Financial statements refer to formal and original statements prepared by a business concern to disclose its financial information. Financial statements prepared for the purpose of presenting a periodical review or report on the progress by the management.

# 2. What is common size statement?

Common size statements indicate the relationship of various items with some common items. Income statements, the sale figure is taken as basis and all other figures are expressed as percentage of sales.

3. Explain the meaning of trend Analysis of financial statements.

Trend signifies a tendency and as such the review and appraisal of tendency in accounting variables are nothing but trend analysis. Trend analysis is carried out by calculating trend ratios (percentage) plotting the accounting data on graph or chart. Trend analysis is significant for forecasting and budgeting.

#### PART-B

1. The following are the income statement of jeevan ltd, for the year ending 31<sup>st</sup> December 1998 and 1999. you are required to prepare a comparative income statement for the two years.

Particulars	31.121998	31.12.1999
	Rs	Rs
Net sales		12,00,000
	10,00,000	
Cost of goods sold	5,50,000	6,05,000
Operating expenses:		
Adminstration	80,000	1,00,000
Selling	60,000	80,000
Non-operating expenses:		
Interest	40,000	50,000
Income-tax	50,000	80,000



solution:

Jeevan limited Comparative Income statement for the years ended 31<sup>st</sup> December 1998 and 1999

	1998	1999	Increase or de	crease in 1998
	KS	Rs	and 1999	
			Amount	
			percentage	- (
			Rs	%
Net sales	10,00,000	12,00,000	2,00,000	20
Less: cost of	5,50,000	6,05,000	55000	10
goods sold				
Gross profit	4,50,000	5,95,000	1,45,000	32.22
Operating				
expenses:				
Adminstration	80,000	1,00,000	20000	25
Selling	60,000	80,000	20000	33.33
Total				
Operating	1,40,000	1,80,000	40,000	28.57
expenses				
Operating				
profit	3,10,000	4,15,000	1,05,000	33.87
A-B				
Non				
operating				
expenses:	40,000	50,000	10000	25
Interest	50,000	80,000	30,000	60
Income tax				
Total non				
operating	90,000	1,30,000	40,000	44.44
expense (D)				
Net profit (C-	2,20,000	2,85,000	65,000	29.55
D)				



## PART-C

1. Dhandapani and co ltd furnishes the following balance sheet for the years 1997 and 1998.Prepare common size balance sheets.

		Balance she	et		
Liabilities	1997	1998	Assets	1997	1998
	Rs	Rs		Rs	Rs
Share	2,00,000	3,00,000	Buildings	4,00,000	4,00,000
capital					
Reserves	6,00,000	7,00,000	Machinery	6,00,000	10,00,000
10%					
debentures	2,00,000	3,00,000	Stock	2,00,000	3,00,000
Creditors	3,00,000	5,00,000	Debtors	2,00,000	2,50,000
Bills					
payable	1,00,000	80,000	Cash at	1,00,000	50,000
Tax payable			bank		
	1,00,000	1,20,000			
	15,00,000	20,00,000		15,00,000	20,00,000

solution:

## Dhandapani & co ltd

# Common size balance sheet as on 31<sup>st</sup> December 1997 and 1998

	1997		1998	
Assets	Amount	%	Amount	%
Current Assets:				
Cash at bank	1,00,000	6.67	50,000	2.50
Debtors	2,00,000	13.33	2,50,000	12.50
Stock	2,00,000	13.33	3,00,000	15.00
Total current Assets				
(A)	5,00,000	33.33	6,00,000	30.00
Fixed Assets:				
Buildings	4,00,000	26.67	4,00,000	20.00
Machinery	6,00,000	40.00	10,00,000	50.00
Total fixed Assets	10,00,000	66.67	14,00,000	70.00

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			A COLOR	
Total Assets (A+B)	15,00,000	100.00	20,00,000	100.00
Liabilities and capital:				
Creditors	3,00,000	20.00	5,00,000	25.00
Bills payable	1,00,000	6.67	80,000	4.00
Tax payable	1,00,000	6.66	1,20,000	6.00
Total current	5,00,000	33.33	7,00,000	35.00
liabilities(A)				
Long term liabilities:				
10% Debentures	2,00,000	13.33	3,00,000	15.00
Total liabilities A+B=C	7,00,000	46.67	10,00,000	50.00
Capital & Reserves:				
Share capital	2,00,000	13.33	3,00,000	15.00
Reserves	6,00,000	40.00	7,00,000	35.00
Total share holders'				
funds (D)	8,00,000	53.33	10,00,000	50.00
Total Liabilities and				
capital (C+D)	15,00,000	100.00	20,00,000	100.00



# UNIT –III PART-A

1.What is Ratio?

Ratio can be defined as "Relationship expressed in quantitative terms, between figures which have cause and effect relationship or which are connected with each other in some manner or the other"

2. What is Ratio Analysis?

Ratio analysis is an age old technique of financial analysis. " the process of determining and presenting the relationship of items and groups of items in the financial statements"

3. Explain the meaning, of R.O.I.

This is called "Return on Investment. It measures the sufficiency or otherwise of profit in relation to capital employed.

4. What are the steps involved in Ratio Analysis?

i) Selection of relevant information

ii)Comparison of calculated Ratios

iii) Interpretation and Reporting

5. What are the modes of expressing ratios?

i) In proportions

ii) In Rate or time or coefficient

iii) In percentage.

# PART-B

1. Calculate stock turnover ratio and stock turnover period form the following. sales Rs.10,00,000, gross profit ratio 20% stock at the beginning of the year Rs.1,75,000, stock at the end of the year Rs.1,45,000. solution:

Cost of sales

stock turn over ratio = -----

Average stock

Cost of sales = Sales – Gross profit



Tax payable75,000calculate (a) current ratio (b) Liquidity ratio (c) Absolute liquidity ratio.

solution:

Current assets

(a) current ratio=	:
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**Current liabilities** 



current	t assets:	Current liabil	ities:
cash	18000	Bills payable	27,000
Debtors	1,42,000	Creditors	50,000
Clsoing stock	1,80,000	Outstanding expenses	15,000
		Tax payable	75,000
total	= 3.40.000	total =	1.67.000

1,67,000

liquid assets

b) Liquid ratio=

current liabilities

liquid assets = current assets-stock and prepaid expenses = 3,40,000-1,80,000 = 1,60,000 = 1,60,000/1,67,000 = 0.96

c)Absolute liquidity ratio = cash and bank balance+ Marketable securities

current liabilities =18,000 ----- = 0.11 1,67,000

#### PART-C

1. Prepare a Balance sheet with as many details as possible from the following information.

- Gross profit ratio 20%
- Debtors turnover6 timesFixed assets to net worth0.80
- Reserves to capital0.50current ratio2.50Liquid ratio1.50



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Net working capital Stock turnover ratio

Rs. 3,00,000 6 times

solution:

Liabilities	RS	Assets	RS	RS
Capital 10,00,000		Fixed assets		12,00,000
Reserves and surplus		Current assets:		
5,00,000	15,00,000	Closing stock	2,00,000	
Current liabilties	2,00,000	Debtors	2,50,000	
		Liquid assets	50,000	5,00,000
	17,00,000			17,00,000

i) Current ratio given = 2.50

current assets

current ratio=\_\_\_\_\_

current liabilities

working capital = current assets- current liabilities = 2.5-1 =1.5 current assets = 3,00,000\*2.5/1.5 = Rs.5,00,000

Current liabilities = 3,00,000\*1/1.5 = Rs 2,00,000

ii) Calculation of liquid assets and stock liauid ratio given = 1.50

liquid assets

Liquid ratio=

current liabilities

liquid assets

1.5

2,00,000 liquid assets = 2,00,000\*1.5 = Rs.3,00,000 liquid assets = current assets-stock 3,00,000 = 5,00,000-stock stock = 5,00,000-3,00,000



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= Rs. 2,00,000

iii) Calculation of Debtors

Stock turnover ratio given = 6 times

Cost of goods sold

stock turnover ratio \_\_\_\_

Average stock

cost of good sold

6 = \_\_\_\_\_

2,00,000

cost of goods sold = 2,00,000\*6

= Rs . 12,00,000

Gross profit ratio given 20%

when sales=100 gross profit=20 cost of good sold = 80

sales = cost of goods sold = 100/80 = 12,00,000\* 100/80 = Rs 15,00,000

Debtors turnover = Credit sales/ Average receivables

6 = 15,00,000/Average receivables Average receivables = 15,00,000/6 = 2,50,000

iv) other liquid assets liquid assets 3,00,000 less: Debtors 2,50,000 other liquid assets = 50,000

v) Calculation of fixed assets and net worth Fixed assets to net worth given 0.80 Assuming there are no long tem debt and fictitious assets Balance sheet equation= net worth+ current liabilities = fixed assets +current assets Assuming net worth as x x+ 2,00,000 = 8x+5,00,000 x-8x = 5,00,000-2,00,000 2x= 3,00,000



x= 3,00,000/2 Rs = 15,00,000 Net worth = 15,00,000 Fixed assets = 15,00,000\*.8 = 12,00,000

- vi) Calculation of capital and reserves Reserves to capital given = 0.50Net worth = 0.50+1=1.5Net worth = 1.5 = 15,00,000
  - capital = 15,00,000\* 1/1.5 =Rs 10,00,000
  - Reserves = 15,00,000\* 0.5/1.5 = Rs 5,00,000

3) Fried cost at 50-1. activity level is Rs 50000, what will be the fixed last at 601. and 80-1. activity Level Solution: proced case R5 50000 for 601. and 80% actudy level. 4) Vonable overhead for production of 10000 units at Ro 20000. What will be the variable overheads for production of (a) 15000 units (b) 20000 units. Solution  $(a) = \frac{20000}{\times 15000} = 30000$ 10000 (b) 20000 x 20000 = 40000 // 10000 5) Ascortain the amount of profil or Loss on sale of Machinary 00000 Cost of Machinary 30000 Accumulated Depresation Salos value of Machinary 85000 Solution: Cost 100000 (-) ACU Dep \_30000 BOOK value 70000 Sales Value 85000 Prolition Sale, 15000

Part-B

1) From the following particulars prepare production budget for 3 months ending 30th Jane 2013.

April 2013 May 2013 Jame 2013 Jame 2013 Jame 2013 Jame 2013 July 2013 July 2013 IZ is The policy of the Company to maintain 50-1. of the munth's sales are opening stock.

Estimated sales

solution

April May June Estimated sales 140000 140000 130000 (+) closing stock 8000 65000 60000 22000 225000 190000 (-) op stoa 70000 80000 65000 Production => 150000 145000 125000

2) prepare à flexible Busy por viences on the basis of the following data Ascertain avorheed rate 50% At 60% copacity Varable over head! 6000 Indirect Material Drdivect Cabour 18000 Seni-vanable 0.4: Electricity 40% Fixed 30000 Repair 801 frad 3000 -fixed o.H: 16500 Depreasion 4500 Insurance 93000 Salaris Total over heard 7 186000 Solution Floxible budget 50.1. 60-1. Indiret Material 6000 5000 Dictivent wages 18000 1500 Electuly Fored Vareble 12000 12000 18000 15000 Rappeur Frizad Varailde 2400 2400 600 500 -Fredott: Dop 16 500 16500 Insigone 4500 4500 15000 Salanos 15000 Total cost 155000 66000

3) From the following information, calculate Cash from operation: Rs. Net profit for the year 200000 400000 Total sales Debtors at the beginning of the year 132.000 Debtor at the end of the year 99000 Solution Statement of Cash from Operation Net prefit 20000 (+) Dec in CA 33000 Cash from operation 233000 4) calulate finds from operation from the following pupil or Loss ale protit and Loss Account TO Expenses paired 300000 By 9000 profile 450000 To Depreciation 70000 By Grain on To hoss on sale y Machino 4000 sale & land 60 000 200 To Discent 10 Goodwill 2000 To wet projet 115800 510000

Statement showing fonds from operation 115800 N'p as per per Add Dep 70000 4000 hos on sale of machin 9 wd will 94000 20000 209800 60000 Les gain on sal of land Funds from operation, 149800

Part-C The company at present operating 80.1. Capacity productions and sells 40 000 Conits. Per Unit 15 Direct Material Drovert wages 16 Factory of 30% Fixed 5 Officott. 60% Variable 3 selling & Distribution OH 2 (50 1. vareble) prepar a budget at 60% and got. Capacity So which Flexible budget 30000 min 60/ 40000 min 80-1. 45000 min 901 Par Dreel matner Amt P.4 15 Amt 4 50000 15 D. Wages 600000 15 675000 10 300000 10 400000 10 450000 FactyoH: V 70%. 3.5 105000 3.5 140000 3:5 157500 F30% 2.0 60000 1.5 60000 1.33 60000 offic overhead: V: 60.1. 1.8 72000 54.000 1.8 1.8 81000 1.9 F 40% 48000 48000 1.2 1.07 48000 SellingoH 45000 30000 40000 t Vache SOI! 1 40000 0.89 70 000 Fred SOI 1.33 40 800 35 1400000 1087000 84.59 1556500 Total ast \$6.23

2) From the following Balance sheet, prepare a cash flow statement: Labilities 2011 2012 Asset 2011 2012 Land 50000 66000 Show capital 200000 250000 PILO/C 10000 23000 Stock 80000 90000 Drs. 120000 115000 malitors 70000 45000 Cart 30 000 47000 28000 318000 3 18000 280000 Solution Cash Flow Statement NP before tox 13000 13000 Operating profit (L0000) Increase Stock Dec in Drs. 5000 (25000) Dec m crs (17000) Net Cash Purchase of Land (16000) (1600) Issue of shares 50000 50000 Net increase in cash 17000 Add Cash on the bighning 30000 Cash dosing balance => 47000

3) From the following information, prepare a cash budget for the period from Jan to April

	Expected sales Rs.	Superfed purchase Rs
January	60,000	48,000
February	40,000	45,000
March	45,000	31,000
April	40 000	40.000

Wages to be paid to workers will be BS 5000 pm. Cash balance of let Jan. may be assumed to be RS 8000.

Solution.

Particulous.	Jan	Feb	March	April
opening cash	8000	15000	5000	14000
ld Rocerpts	60000	40000	45000	40000
(4)	68000	85000	50000	54000
Payments:	40000	A SOCO	31000	40000
payment to supres	5700	5010	57080	5000
, ) 0	53000	50.000	36000	45000
Closing Cash but	15700	500	14.000	9700

Unit: V port-A  
() Compute the Margin of Safety.  
Profit R 225000  
PIV ratio +0%.  
Solution: Mos = Poofit  
PV  
= 225000  
407.  
= 562500  
(2) Sales Rs 2,00000  
Vanathe Cest Rs 100000  
Find out PV ratio  
Solution = PV ratio = 
$$\leq \times 100$$
  
=  $\frac{100000}{20000} \times 100$   
=  $50\%$ .  
(3) Foind out Vanathe Cost  
Sales Rs 4,00000  
PV ratio 25%.  
Solution: Vanathe Cost 4000000 75%.

f) calculate the amount of Contrabution Profil Rs 75000 Foxed Cost Rs 2,30000

Solution: Contribution = 75000 +230000

= 305000

5) Profit required Rs 200000 Fixed cost Rs 400000 Phyration 40%

Find out Its required sale to earna profit required.

Solution: Required Profit =  $\frac{fC + RP}{PV}$ =  $\frac{4000000 + 200000}{40.7}$ =  $\frac{600000}{40.7}$ =  $\frac{600000}{40.7}$ = Rs 1500000.

Part-B 1) From the following in formation, find out protio and Margin of Safety Sales B. 10,0000 Vouable cest RS 400000 Fixed cost Rs 400000 Solution: Morginal cost statement sales 10,00 000 (-) Variable Cost - 4,00000 Confinention 600000 () freed cost 400000 Profit 20000 (i) PY Ratio =  $\frac{c}{s} \times 100 \frac{600000}{10,0000} \times 100$ = 60 ./. (1) Mos =  $\frac{\text{Profit}}{\text{PV}} = \frac{200000}{60.1}$ = 3 33 383

2) Forom the following information to Abe (14),  
you are required to find out  
a) plv Rato (b) BEP (c) Proph (d) Mos.  
RS.  
Total Forced Lost 4500  
Total Vouchble Lest 7500  
Total Vouchble Lest 7500  
Total Sales 15000  
(-) VC 7500  
(-) VC 7500  
Cont 4500  
(-) FC 4500  
Profit 3000  
(b) BEP = 
$$\frac{FC}{PV} = \frac{4500}{507} = 9000$$
  
(c) Profit 3000  
(d) Mos = As-BEP 15000-9000 = 6000/

3) calculate the Break even point from  
the following data:  
Fixed expenses the 150000  
Variable Cost Perunit Ro 10  
Selling properturit Ro 15  
Solution  

$$BEP = fc$$
  
Contribution Pu = Sp-vc  
 $= 15-10$   
 $= 5$   
 $BEP = 150000$   
 $5$   
 $= 30000$  units  
 $BEP = 30000 \times 15$   
 $RS: A 50000$ 

From the following data, determine  
the break - over point: and Margins of Safety  
Freed overhead BS 25000  
Sales B 40000  
Nonable 0+1 BS 30000  
Also fond out Sales to earn a Profil  
of RS 40000  
Solution Marginal cost statment  
Sales 40000  
C: 10000  
C: 10000  
C: 10000  
Profil T500  
(1) PV = 
$$\sum_{s} 100 \frac{100000}{PV} \times 100 = 25\%$$
  
(1) BEP =  $\frac{fc}{PV} = \frac{25000}{25\%} = 100000$   
(11) Mos = As - BEP 40000 - 100000 = 30000  
(11) Mos =  $\frac{fc}{PV} = \frac{25000}{25\%} + \frac{40000}{25\%}$ 

Past. C 1. The sales tumover and profit during two years were as follows: year salests. prefil 2013 140000 15000 2014 160000 20000 Calculate (a) Plyratio (b) BEP (c) sales required to earn a profit of Rs 40 000 d) foced expenses e) profit when sales are Rs 120000. Solution: Proatio = changes in profit X100. 5000 ×100 = 25% BEP = FC/PV FC = 140000 x25.1. = 35000 (-) propt 15000 FC. 20000

$$BEP = \frac{2000}{257!} = 80000$$
  
(2) Sales deguned & earn a Pitht y Ridoco  

$$Sales = \frac{FC + RP}{PV}$$
  

$$= \frac{40000}{257!}$$
  
(2) FC = 20000  
(2) FC = 20000  
(2) Prifit When Sales are Rs (2000)  
Cent = 120000 \times 255!  

$$= 30000$$
  

$$Jess FC = \frac{2000}{1000}$$
  
Prifit:  $10000$ 

(3) x Hd has prepared the following budget estimates for the year 2007-08. Sales units 15000 Fixed expenses RS 34000 sales value Rs 150000 Voueble cost 6 per unit you as required to: (i) Find out Prratio, BEP and Margine of safety (i) ) calculate the Revised Proation BEP, and Morgins of safety in decrease 05 10%. in selling Price. Solution. Marginal cost statement Sales. 150000 (-) VC 15000 x6 90000 boan (-) FC 34000 26200 profit

$$(1) Pr = \frac{c}{s} \times 100 \quad \frac{6000}{15000} \times 100 = 404$$

$$(1) \quad B Ep = \frac{Fc}{Pv} = \frac{34000}{404} = 8500$$

$$(11) \quad Mos = As - 8 Ep \quad 15000 - 8500 = 6500$$

$$\frac{Revised}{SP} = \frac{SP}{P} = \frac{100}{100}$$

$$Pr = \frac{c}{s} \times 100 = \frac{34000}{9} = 102000$$

$$BEp = \frac{FC}{Pv} = \frac{34000}{333334} = 102000$$

$$= 33000 / 1.$$