

SUGGESTED SOLUTION

I.P.C.C MAY 2014 EXAM

COST ACOUNTING & FINANCIAL MANAGEMENT

Prelims (Test Code - I M J 4 0 6 8)

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Ans. 1

(a)

Calculation of cost:

	Standard			Revised			Actual		
Α	80	20	1,600	80.89	20	1,617.80	90	.18	1,620
В	120	30	3,600	121.33	30	3,639.90	110	34	3,740
	200		5,200	202.22		5,257.70	200		5,360
	20			20.22			20		
Total	180		5,200	182		5,257.70	180		5,360

Calculation of Variance:

	Material Cost Va	riance=Standard	Cost-Actual Cost						
	=5257.70-5360								
		=102.30 Ac							
	Material Price	ce Variance	Material Usag	je Variance					
	(SP-A	P)×AQ	(SQ-AC	() ×SP					
Α	(20-18) ×90	180F	(80.89-90) ×20	182.20A					
В	(30-34) ×110	440A	(121.33-110) ×30	339.90F					
		260A		157.70F					
	Material Mi	x Variance	Material sub-us	age Variance					
	$SP \times (Std. Mix)$	for Act. Qty	SP × (Std. Mix f	or Act. Qty					
	Act. Mix.	for Act. Qty.)	Std. Mix 1	or Std. Qty.)					
		• ,		• ,					
Α	20 ×(80-90)	200A	20 ×(80.89-80)	17.8F					
В	30 ×(120-110)	300F	30 ×(121.33-120)	39.9F					
		100F		57.7F					

(b)

1. P/V ratio =
$$\frac{\text{Change in profit}}{\text{Change in sales}} \times 100$$

= $\frac{14,000-10,000}{90,000-80,000} \times 100$
= $\frac{4,000}{10,000} \times 100$
 $\therefore \text{ P/V ratio} = \left(\frac{4}{10} \times 100\right) = 40\%$

2. Calculation of Break-even point

Sales
$$\times$$
 P/V ratio – Fixed cost = Profit
80,000 \times P/V ratio – Fixed cost = 10,000

∴ Fixed cost = 80,000 × 40% − 10,000 = ₹22,000
Break-even sales =
$$\frac{\text{Fixed cost}}{\text{P/V Ratio}} = \frac{\text{Rs.22,000}}{40\%} = ₹55,000$$

3. Sales x P/V ratio - Fixed cost = Profit (loss) ₹50,000 × 40% - ₹22,000 = Profit (loss) ∴ Profit = ₹20,000 - ₹22,000

∴ (Loss) = ₹2,000

Therefore, when sales is ₹50,000 then loss of ₹2,000 is incurred.

4. Sales × P/V ratio − Fixed cost = Profit Sales × 40% − ₹22,000 = ₹19,000 Sales × 40% = ₹19,000 + ₹22,000

∴ Sales =
$$\frac{\text{Rs.41,000}}{40\%}$$
 = ₹1,02,500

Hence, required sales = ₹1,02,500

5. Margin of Safety = Total sales − Break-even sales = ₹60,000 − ₹55,000 = ₹5,000

(c)

WACC based on Market Value weights

Capital Source	Market value	Weights	Cost of capital	WACC
Equity capital	80	53.33	18	9.60
Preference Share Capital	30	20.00	15	3.00
Debentures	40	26.67	14	3.73
	150	100		16.33

The weighted average cost of capital of the company based on market value is 16.33%

WACC based on Book Value weights

Capital Source	Book value (₹)	Weights	Cost of capital	WACC
Equity capital	120	66.67	18	12.00
Preference Share Capital	20	11.11	15	1.67
Debentures	40	22.22	14	3.11
	180	100		16.78

The weighted average cost of capital of the company based on book value is 16.78%

(d)

1. Dividend yield on ordinary shares:

Dividend per share = 20% of paid up value = ₹0.20 Therefore, Dividend yield = $\left(\frac{\text{DPS}}{\text{Market Price}}\right) \times 100 = \left(\frac{0.20}{4}\right) \times 100 = 5\%$

2. Cover for Preference and Equity Dividends:

i. Preference Dividend Cover
$$=\frac{PAT}{Preference Dividend} = \frac{Rs.5,42,000}{Rs.42,000} = 12.9 \text{ times}$$

ii. Equity dividend cover
$$= \frac{\text{(PAT-Preference Dividend)}}{\text{Equity Dividend}} = \frac{\text{Rs.5,00,000}}{\text{Rs.3,20,000}} = 1.56 \text{ times}$$

3. Earning Yield
$$= \frac{EPS}{Market \, Price} = \frac{Rs.5,00,000 \div Rs.16,00,000}{Rs.4} = 7.8\%$$

4. Price/Earnings Ratio
$$= \frac{\text{Market Price}}{\text{EPS}} = \frac{\text{Rs.4}}{\text{Rs.0.31}} = 12.9$$

5. Net Cash Flow:

Ans. 2

(a)

1.

Amit Industrial Corporation Ltd. Statement of changes in financial position on total resources for the Current year ending March 31

Sources of Working Capital:	Amount (₹)
Fund from Business operations: (WN1)	39,405
Issue of long term liabilities:	

Issue of equity share (for the purchase of assets of another company)	37,500
Total financial resources provided [A]	76,905
Uses of Working Capital:	
Purchase of non-current assets:	
Plant for cash	4,237
Machinery (in exchange for equity shares)	13,770
Goodwill (in exchange for equity shares)	7,500
Recurring payments to investors:	
Dividends paid	19,500
Total Financial Resources used [B]	45,007
Increase in working capital (sources-uses) [A-B]	31,898

Working Notes:

(i)	Determination of funds from business operations		₹
	Profit and Loss A/c balance as on March 31, current year		30,915
	Add: Depreciation: Property	3,188	
	Machinery	<u>8,070</u>	11,258
	Dividends		19,500
	Transfer to Reserve [30,000–22,500]		7,500
			69,173
	Less: Profit and Loss balance as on March 31, Previous year		(29,768)
	Funds from business operations		39,405

2.

Schedule of Changes in Working Capital

	Yea	ar	Working	Capital
	Previous ₹	Current ₹	Increase (+)₹	Decrease(–)₹
Current Assets:			•	
Stock	82,500	69,000		13,500
Trade Debtors	64,620	52,073		12,547
Cash and Bank	1,125	8,250	7,125	
Pre-payments	2,527	750		1,777
	150,772	130,073		
Current Liabilities:				
Creditors	29,250	31,245		1,995
Bills payable	25,342	8,250	17,092	
Bank overdraft	45,000	-	45,000	
Provision for taxation	30,000	37,500		7,500
	129,592	76,995		
Networking Capital (Current	21,180	53,078		
assets - Current liabilities)				
Increase in networking Capital	31,898	-		31,898
	53,078	53,078	69,217	69,217

(b) 1.

Halsey's Premium Plan:	Worker – Amar	Worker - Bimal
Actual time taken	40 hours	40 hours
Standard time for actual Production	176 Pcs $\times \frac{15 \text{ Min.}}{60 \text{ Min.}}$	140 Pcs $\times \frac{15 \text{ Min.}}{60 \text{ Min.}}$
	=44 hours	=35 hours
Minimum Wages	40 hours × ₹40	40 hours × ₹40
	₹1,600	₹1,600
Bonus	50% (44 − 40) × ₹40 = ₹80	No bonus
Earnings	₹1,680	₹1,600

Rowan's Premium Plan:

Minimum Wages (as above)	₹1,600	₹1,600
Bonus	$\frac{4}{49} \times 40 \times 40 = ₹145.45$	No bonus
Earning	₹1,745.45	₹1,600

2.

Differential Piece rate	Worker – Amar	Worker - Bimal
Efficiency	$\frac{176}{60} \times 100 = 110\%$	$\frac{140}{60} \times 100 = 87.5\%$
Earning	₹10 × 120% × 176 Pcs	₹10 × 80% × 140 Pcs
	= ₹2112	= ₹1120

Ans. 3 (a)

Process I A/c

11000001740									
Particulars	Total	Cost	Profit	Particulars	Total	Cost	Profit		
	(₹)	(₹)	(₹)		(₹)	(₹)	(₹)		
To Opening Stock	1,50,000	1,50,000	-	By Transfer to	10,80,000	8,10,000	2,70,000		
To Direct Material	3,00,000	3,00,000	-	Process II					
To Direct Wages	2,24,000	2,24,000	-						
	6,74,000	6,74,000							
Less: Closing Stock	(74,000)	(74,000)	-						
Prime Cost	6,00,000	6,00,000	-						
To Overheads	2,10,000	2,10,000	-						
To Process Cost	8,10,000	8,10,000	-						
Profit 331/2% of cost	2,70,000	-	2,70,000						
	10,80,000	8,10,000	2,70,000		10,80,000	8,10,000	2,70,000		

Process II A/c

	FIOCESS II AVC							
Particulars	Total	Cost	Profit	Particulars	Total	Cost	Profit	
	(₹)	(₹)	(₹)		(₹)	(₹)	(₹)	
To Opening Stock	1,80,000	1,50,000	30,000	By Transfer	22,50,000	15,15,000	7,35,000	
				to Finished				
				Stock A/c				
To Direct Material	3,15,000	3,15,000	ı					
To Direct Wages	2,25,000	2,25,000	ı					
To Transfer from	10,80,000	8,10,000	2,70,000					
Process A/c								
	18,00,000	15,00,000	3,00,000					
Less: Closing	(90,000)	(75,000)	(15,000)					
Stock (W.N. 1)								
Prime Cost	7,10,000	14,25,000	2,85,000					
To Factory	90,000	90,000						
Overhead								
Total Cost:	18,00,000	15,15,000	2,85,000					
Profit 20% on	4,50,000		4,50,000					
transfer price i.e.								
25% on cost								
	22,50,000	15,15,000	7,35,000		22,50,000	15,15,000	7,35,000	

Working Notes:

1. Profit element in closing stock = $\frac{3,00,000}{18,00,000}$ × 90,000 = ₹15,000

Finished Stock A/c

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Particulars	Total	Cost	Profit	Particular	Total	Cost	Profit
	(₹)	(₹)	(₹)		(₹)	(₹)	(₹)
To Opening Stock	4,50,000	2,85,000	1,65,000	By Sales	28,00,000	16,50,000	11,50,000
To Transfer from	22,50,000	15,15,000	7,35,000				
Process II							
	27,00,000	18,00,000	9,00,000				
Less: Closing	(2,25,000)	(1,50,000)	(75,000)				
Stock (W.N. 2)							
Total Cost	24,75,000	16,50,000	8,25,000				

	Profit	3,25,000	· - '	3,25,000	,			
ļ	(Balancing Figure)	1						1
Ī		28,00,000	16,50,000	11,50,000		28,00,000	16,50,000	11,50,000

Working Notes:

2. Profit element in closing stock = $\frac{9,00,000}{27,00,000}$ × 2,25,000 = ₹75,000

Calculation of Profit on Sale

Process	Apparent Profit	Add Unrealised Profit		Actual Profit
		in Opening Stock	Profit in Closing Stock	
	(₹)	3:0Ck (₹)	(₹)	(₹)
Process-I	2,70,000	-	-	2,70,000
Process-II	4,50,000	30,000	(15,000)	4,65,000
Process-III	3,25,000	1,65,000	(75,000)	4,15,000
				11,50,000

(b)

1. Total Assets Total Assets Turnover ₹40 Lakhs

Income Statement

Particulars	₹in Lakhs
Total sales (₹40 Lakhs × 3)	120
Less: Variable cost (80%)	(96)
Contribution	24
Less: Fixed Costs	(8)
Net Profit (EBIT)	16
Less: Interest on debentures	(3)
Profit before tax (PBT)	13
Less: Tax @ 50%	(6.5)
Profit after tax (PAT)	6.5
Earning per share = $\frac{\text{Profit after tax}}{\text{No.of equity shares}} = \frac{\text{Rs.6,50,000}}{1,00,000} = ₹6.50 \text{ per share}$	

2. Operating Leverage =
$$\frac{\text{Contribution}}{\text{EBI}} = \frac{24}{16} = 1.5$$

3. Financial Leverage =
$$\frac{EBIT}{PBT} = \frac{16}{13} = 1.23$$

4. Combined Leverage =
$$\frac{\text{Contribution}}{\text{EBIT}} \times \frac{\text{EBIT}}{\text{PBT}} = 1.5 \times 1.23 = 1.85$$

5. Current Ratio =
$$\frac{\text{Current Assets}}{\text{Current Liabilities}} = \frac{15}{8} = 1.88$$

Selling and distribution

Ans. 4

(a)

	Pre	Que
Selling price	16,000	8,000
Less: Profit	(4,000)	(1,600)
	<u>12,000</u>	<u>6,400</u>
Total cost	18,4	400
Less: Further processed cost	(8,	000)
Less: Joint cost	<u>(10,</u>	000)
Selling and distribution	·	400
expenses		
·	Pre	Que

133

267

Apportionment of joint cost

	Pre	Que
Selling price	16,000	8,000
Less: Profit	(4,000)	(1,600)
Selling expenses	(267)	(133)
Subsequent costs	(5,000)	(3,000)
Share of joint cost	<u>6,733</u>	3,267

(b)

	Particulars	Amount (₹)
1.	Total Manufacturing expenses	` '
	Sales	24,00,000
	Less: Gross profit 20%	(4,80,000)
	Manufacturing cost	19,20,000
	Less: Material (6,00,000)	
	Wages (4,80,000)	10,80,000
	Manufacturing expenses	8,40,000
2.	Cash manufacturing expenses	6,00,000
3.	Depreciation (₹8,40,000 – ₹6,00,000)	2,40,000
4.	Cost of Sales (Cash Expenses)	
	Manufacturing Cost	19,20,000
	Less: Depreciation	(2,40,000)
	Cash cost of manufacture	16,80,000
	Add: Administrative expenses	1,50,000
	Sale promotion expenses	<u>75,000</u>
	Total Cash Cost	19,05,000
5.	Cash in hand	₹80,000

Computation of Working Capital

Particulars	•	Amount (₹)
Current Assets		
Debtors	(₹19,05,000/6)	3,17,500
Sales promotion expenses prepaid	(₹75,000/4)	18,750
Raw materials	(₹6,00,000/12)	50,000
Finished goods	(₹16,80,000/12)	1,40,000
Cash in hand		80,000
	(A)	6,06,250
Current Liabilities		
Sundry creditors	(₹6,00,000/6)	1,00,000
Manufacturing expenses	(₹6,00000/12)	50,000
Administrative expenses	(₹1,50,000/12)	12,500
Wages due	(₹4,80,000/12)	40,000
	(B)	2,02,500
Working Capital	(A) – (B)	4,03,750
Add: 10% Safety margin		40,375
Working Capital requirement on Cash C	Cost Basis	4,44,125

Ans. 5

(a) Cost allocation: It is defined as the allotment of whole items of cost to cost centers. It is the process of identifying, aggregating, and assigning costs to cost objects. A cost object is any activity or item for which you want to separately measure costs. The very term "allocation" implies that there is no overly precise method available for charging a cost to a cost object, so the allocating entity is using an approximate method for doing so. For example, if a typist works exclusively for board of studies, then the salary paid to him or her should be charged to board of studies account. This technique of charging the entire overhead expenses to a cost centre are known as cost allocation.

Cost absorption: It is defined as the process of absorbing all overhead costs allocated to or apportioned over particular cost centre or production department by the units produced. Cost absorption can take place only after cost allocation. An example of cost absorption would be the application of factory overhead costs to processing departments using a pre-determined overhead rate.

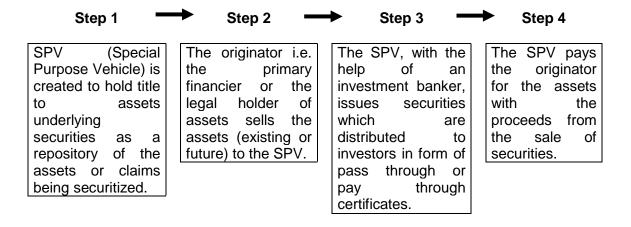
(b) Advantages of Integrated Accounting System:

The following are the main advantages:

- 1. Since there is one set of accounts, thus there is one figure of profit. Hence, the question of reconciliation of costing profit and financial profit does not arise.
- **2.** Efforts in duplicate recording of entries & to maintain separate sets of books are saved. Thus, there is saving of time and labour.
- 3. The operation of the system is facilitated with the use of mechanized accounting.
- **4.** Costing data are available from books of original entry and hence, no delay is caused in obtaining information.
- **5.** Combination of two sets of books and centralisation of accounting function results in economy.
- **6.** Complete analysis of cost and sales is kept.
- 7. Complete details of all receipts and payments in cash are kept.
- **8.** Complete details of all assets and liabilities are kept and this system does not use national account to represent impersonal accounts.
- **9.** Since financial books are subject to a rigorous accuracy, checking integrated accounts ensures similar checks for cost account.
- (c) Modigliani and Miller begin by making several assumptions about capital market and about firms. These assumptions simplify their analysis and focus it entirely on the valuation effect or debt. The M & M assumptions are as follows:
 - **1.** Capital markets are frictionless, meaning that neither firms nor investors pay taxes or transactions costs.
 - 2. Investors can borrow and lend at the same rate as that of corporations.
 - **3.** Firms are identical in every respect except for capital structure. Using these assumptions, M & M put forth two propositions, detailed below.

(d)

- Securitization is a process in which liquid assets are pooled into marketable securities that can be sold to investors.
- The process leads to the creation of financial instruments that represent ownership interest in or secured by a segregated income producing asset or pool of assets.
- These assets are generally secured by personal or real property.



- Process of securitization is generally without recourse (investor bears the credit risk or risk of default).
- Issuer has a right to legal recourse in the event of default.
- The risk run by investors can be further reduced through credit Enhancement facilities like insurance, letter of credit and guarantees.

Ans. 6

(a)

Statement of budget profitability

1. Ctatement of badget promability						
Products	Р	Q	R	Total		
Budgeted quantity (units): (A)	9,750	7,800	7,800			
	₹	₹	₹	₹		
Selling price (per unit): (B)	270	280	400			
Variable cost (per unit):						
Direct materials:	64	152	117			
Direct labour	160	94	222			
Variable overheads	<u>16</u>	9	<u>21</u>			
Total variable cost (per unit): (C)	240	255	360			
Contribution (per unit): $(D) = [(B) - (C)]$	30	25	40			
Total contribution: (A) \times (D)	2,92,500	1,95,000	3,12,000	7,99,500		
Less: Fixed cost				4,00,000		
Profit				3,99,500		

2. Statement of budget profitability

2. Otatement of budget promability						
Particulars	P	Q	R	Total		
Contribution (per unit): (₹)(A)	30	25	40			
[Refer to part (a) above]						
Direct labour hours in Dep2. (B)	5	4	7			
Contribution per hour: (A ÷ B) (₹)	6	6.25	5.71			
Ranking	II	I	III			
Optimal product mix units: (C)	11,700	9,750	5,292			
(Refer to Working Notes 1 and 2)	(58,500 hrs.)	(39,000 hrs.)	(37,044 hrs.)			
Total contribution (₹) (A) × (C)	3,51,000	2,43,750	2,11,680	8,06,430		
Less: Fixed cost (₹)				(4,00,000)		
Optional Profit				4,06,430		

Working Notes:

1. Total hours available in department 2

Products (a)	Units (b)	Hrs. (p. u.) (c)	Total hrs. (d) = (b) × (c)
Р	9,750	5	48,750
Q	7,800	4	31,200
R	7,800	7	54,600
			1,34,550

2. Maximum sales quantities of products (under improved market conditions)

2. maximum saiss quantities of products (ander improved market conditions)					
Products	Units	Increase in percentage	Total number of units		
Р	9,750	20	11,700		
Q	7,800	25	9,750		
R	7,800	25	9,750		

(b)

1. Computation of pay back period (₹in lakhs)

Machine – X Cu		Cumulative	Machine - Y		
Year Cash Inflows (₹)		Cash Flows	Cash Inflows (₹)	Cumulative Cash Flows (₹)	
1	1.5	1.5	0.5	0.5	
2	2.0	3.5	1.5	2.0	
3	2.5	6.0	2.0	4.0	
4	1.5	7.5	3.0	7.0	
5	1.0	8.5	2.0	9.0	

Pay Back Period (Machine X) = $2 + \frac{1.5}{2.5} = 2.6$ years

2. Statement Showing Computation of N.P.V

Particulars	Year	P.V.F. @ 10%	Machine X Machine Y		e Y	
			Amount (₹)	P.V. (₹)	Amount (₹)	P.V. (₹)
Cash Outflows						
Initial Investment	0	1	5	<u>5</u>	5	<u>5</u>
P.V.CO.(A)				5		5
Cash Inflows						
	1	0.909	1.5	1.3635	0.5	0.4545
	2	0.826	2.0	1.6520	1.5	1.2390
	3	0.751	2.5	1.8775	2.0	1.5020
	4	0.683	1.5	1.0245	3.0	2.0490
	5	0.621	1.0	0.6210	2.0	1.2420
P.V.C.I. (B)				6.5385		6.4865
N.P.V.{(B) - (A)}				1.5385		1.4865

3. Profitability Index =
$$\frac{P.V.Cash Inflows}{P.V.Cash Outflows}$$

Machine
$$X = \frac{6.5385}{5.0} = 1.3077$$

Machine Y =
$$\frac{6.4865}{5.0}$$
 = 1.2973

4.

Machine X

macrimic A				
Year	CFAT	Depreciation	PAT	
1	1.5	1	0.5	
2	2.0	1	1.0	
3	2.5	1	1.5	
4	1.5	1	0.5	
5	1.0	1	0	
	8.5	5	3.5	

OR

Average PAT =
$$\frac{3.5}{5}$$
 = 0.7

Average PAT =
$$\frac{(8.5-5)}{5}$$
 = 0.7

ARR (Total Investment Approach)

$$= \frac{\text{Average P.A.T}}{\text{Total Investment}} \times 100 = \frac{0.7}{5} \times 100 = 14\%$$

Machine Y

Year	CFAT	Depreciation	PAT
1	0.5	1.0	(0.5)
2	1.5	1.0	0.5
3	2.0	1.0	1.0
4	3.0	1.0	2.0
5	2.0	1.0	1.0
	9.0	5.0	4.0

Average PAT =
$$\frac{4.0}{5}$$
 = 0.8

ARR (Total Investment Approach) =
$$\frac{0.8}{5}$$
 = 16%

Ans. 7

(a)

1. Marginal Costing:

(i) The fixed production overhead is treated as period cost. It is charged at the period for which it is incurred.

(ii) The opening and closing stocks are valued at variable production cost. The profit arrived under marginal costing is realistic profit.

2. Absorption Costing:

- (i) The fixed production overhead recovery rate is calculated on the basis of normal production. Overhead is charged on the quantity produced. Hence it is initially treated as product cost. If the actual production quantity is different from budgeted quantity, then there may arise under recovery or over recovery of fixed production overhead. It is finally adjusted with the cost of sales.
- (ii) The opening / closing stock is valued at total cost per unit (variable + fixed). Hence the profit under absorption costing differs from profit under marginal costing.

(b)

,						
	Bin Card	Store Ledger				
	• It contains records regarding quantity of receipts, issues, and balances of material.	 It contains both quantity and value of materials. 				
	• It is maintained by the storekeeper.	• It is written up by the costing department.				
	 Transfer of material from one department to another or from one job to another do not to appear in bin card. 	· · · · · · · · · · · · · · · · · · ·				
	 Posting bin card is made simultaneously, i.e., at the time of receipt and issue of made material. 					

(c)

- 1. Cash management: The efficient collection and payment of cash both inside the group and to third parties is the function of the treasury department The involvement of the department with the details of receivables and payables will be a matter of policy. There may be complete centralization within a group treasury, or the treasury may simply advise subsidiaries and divisions on policy (collection/payment periods, discounts, etc.,). Any position between these two extremes would be possible. Treasury will normally manage surplus funds in an investment portfolio. Investment policy will consider future heads for liquid funds and acceptable levels of risk as determined by company policy.
- 2. Currency Management: The treasury department manages the foreign currency risk exposure of the company. In a large multinational company (MNC) the first step will usually be to set off intra-group indebtedness. The use of matching receipts and payments in the same currency will save transaction costs. Treasury might advise on the currency to be used when invoicing overseas sales.
- 3. Funding Management: Treasury department is responsible for planning and sourcing the company's short, medium and long-term cash needs. Treasury department will also participate in the decision on capital structure and forecast future interest and foreign currency rates.
- **4. Banking:** It is important that a company maintains a good relationship with its bankers. Treasury department carry out negotiations with bankers and act as the initial point of contact with them. Short-term finance can come in the form of bank loans or though the sale of commercial paper in the money market.
- 5. Corporate Finance: Treasury department is involved with both acquisition and divestment activities within the group. In addition it will often have responsibility for investor relations. The latter activity has assumed increased importance in markets where share-price performance is regarded as crucial and may affect the company's ability to undertake acquisition activity or, if the price falls drastically, render it vulnerable to a hostile bid.

(d) Advantages of Profit Maximization

- 1. Easy to calculate profits
- **2.** Easy to determine the link between financial decision and profits.
- **3.** Must for survival of business, else capital is lost.
- **4.** Essential for growth and development of business
- **5.** Only profit-making firms can pursue social obligations Disadvantages.

(e)

- 1. Many large firms operate different divisions in different industries, and for such companies it is difficult to develop a meaningful set of industry averages. Therefore, ratio analysis is more useful for small, narrowly focused firms than for large, multidivisional ones.
- 2. Most firms want to be better than average, so merely attaining average performance is not necessarily good. As a target for high-level performance, it is best to focus on the industry leaders' ratios. Benchmarking helps in this regard.
- **3.** Inflation may have badly distorted firms' balance sheets recorded values are often substantially different from "true" values.
- 4. Seasonal factors can also distort a ratio analysis.
- **5.** Firms can employ "window dressing" techniques to make their financial statements look stronger.
- **6.** Different accounting practices can distort comparisons.
- 7. It is difficult to generalize whether a particular ratio is "good" or "bad."
- **8.** A firm may have some ratios that look "good" and others that look "bad" making it difficult to tell whether the company is, on balance, strong or weak.

Ratio analysis is useful, but analysts should be aware of these problems and make adjustments as necessary. Ratio analysis conducted in a mechanical, unthinking manner is dangerous, but used intelligently and with good judgment, it can provide useful insights into a firm's operations.

MARKS ALLOCATION SHEET

Que. No.	Sub point No.(if any)	Name of Chapter	Description of Concept	Mark Allocation	Total Marks
1(a)	-	Standard costing	Standard costing Calculation of material cost variance		
1(a)	-	Standard costing	Calculation of price variance	1	
1(a)	-	Standard costing	Calculation of usage variance	1	
1(a)	-	Standard costing	Calculation of mix variance	1	
1(a)	-	Standard costing	Calculation of sub-usage variance	1	5
1(b)	-	Marginal costing	Calculation of P/V Ratio	1	
1(b)	-	Marginal costing	Calculation of BEP	1	
1(b)	-	Marginal costing	Calculation of P / L at 50,000	1	
1(b)	-	Marginal costing	Calculation of sales at 90,000 profit	1	
1(b)	-	Marginal costing	Calculation of MOS	1	5
1(c)	-	Cost of capital	Calculation of WACC on Market value	2.5	
1(c)	-	Cost of capital	Calculation of WACC on Book t value	2.5	5
1(d)	-	Ratio Analysis	Calculation of dividend yield	1	
1(d)	-	Ratio Analysis	Calculation of Preparation & ordinary dividends	1	
1(d)	-	Ratio Analysis	Calculation of earning yield	1	
1(d)	-	Ratio Analysis	Calculation of price earning ratio	1	
1(d)	-	Ratio Analysis	Calculation of net cash flow	1	5
2(a)	-	Cash flow statement	Statement of charges in financial position	4	
2(a)	-	Cash flow statement	Calculation of funds from business operation	2	
2(a)	-	Cash flow statement	Schedule of changes in working capital	4	10
2(b)	-	Labour cost	Earning under Halsey's Premium plan	2	
2(b)	-	Labour cost	Earning under Rowan's Premium Plan	2	
2(b)	-	Labour cost	Earning under Differential Piece Rate	2	6
3(a)	-	Process costing	Preparation of Process – I A/c	3	
3(a)	-	Process costing	Preparation of Process – II A/c	3	
3(a)	-	Process costing	Profit element in closing stock	0.5	
3(a)	-	Process costing	Preparation of finished stock	2	
3(a)	-	Process costing	Profit element in closing stock	0.5	
3(a)	_	Process costing	Calculation of profit on sale	1	10
3(b)	-	Leverage	Calculation of operating leverage	1	
3(b)	-	Leverage	Calculation of financial leverage	1	
3(b)	_	Leverage	Calculation of EPS	1	
3(b)	_	Leverage	Calculation of combined leverage	1	
3(b)	-	Leverage	Calculation of current ratio	1	5
4(a)	-	Joint product / By Product	Selling & distribution expenses	3	
4(a)	-	Joint product / By	Apportionment of joint cost	2.5	

$\overline{}$		Product			
4(a)	 	Joint product / By	Cost of product	2.5	8
4(4)		Product			
4(b)	-	Working Capital Management	Calculation of total Mfg. Exp.	2	
4(b)	-	Working Capital Management	Calculation of Depreciation	0.5	
4(b)	-	Working Capital Management	Calculation of cost of sales	2	
4(b)	-	Working Capital Management	Calculation of cash in hand	0.5	
4(b)	-	Working Capital Management	Calculation of working capital	3	8
5(a)		Basic concepts	Cost allocation	2	
5(a)	_	Basic concepts	Cost absorption	2	4
5(a)	-	Integrated & Non integrated	Any 4 advantages (each carry 1 mark)	4	4
5(c)	-	Capital Structure	Introduction Pera.	1	
5(c)	-	Capital Structure	3 assumption	3	4
5(d)	-	Types of Financing	Meaning	1	
5(d)	-	Types of Financing	Steps	2	
5(d)	_	Types of Financing	Explanation	1	4
6(a)	-	Budgets & Budgeting control	Statement of budgeted profit	2.5	
6(a)	-	Budgets & Budgeting control	Statement of optimal product mix & profit	2.5	
6(a)	-	Budgets & Budgeting control	Calculation of total Hrs. Available in department 2	1	
6(a)	-	Budgets & Budgeting control	Calculation of maximum sales	1	2
6(b)	-	Capital Budgeting	Computation of pay back period	2	
6(b)	_	Capital Budgeting	Statement showing NPV	3	
6(b)	_	Capital Budgeting	Calculation of profitability index	2	
6(b)	-	Capital Budgeting	Calculation of Average rate of return	2	9
7(a)	-	Marginal costing	Marginal costing	2	
7(a)	-	Marginal costing	Absorption costing	2	4
7(b)	_	Material costing	Any 4 differences (each carry 1 mark)	4	4
7(c)	-	Treasury & cash management	Any 4 function (each carry 1 mark)	4	4
7(d)	-	Scope & objectives of FM	Advantages of profit maximization	2	
7(d)	-	Scope & objectives of FM	Advantages of wealth maximization	2	4
7(e)		Financial analysis & Planning	Any 4 limitation (each carry 1 mark)	4	4