

SUGGESTED SOLUTION

INTERMEDIATE MAY 2019 EXAM

SUBJECT- FM

Test Code - CIM 8180

BRANCH - () (Date :)

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Answer 1:

Workings:

(i)
$$\frac{\text{Fixed Assets}}{\text{Total Current Assets}} = \frac{5}{7}$$
Or, Total Current Assets = $\frac{\text{Rs.40,00,000 x 7}}{5}$ =Rs.56,00,000
(ii) $\frac{\text{Fixed Assets}}{\text{Capital}} = \frac{5}{4}$ Or, Capital = $\frac{\text{Rs.40,00,000 x 4}}{5}$ =Rs.32,00,000
(iii) $\frac{\text{Capital}}{\text{Total Liabilities}^*} = \frac{1}{2}$ = Or, Total liabilities = Rs. 32,00,000 × 2 = Rs. 64,00,000
*It is assumed that Total liabilities does not include capital.
(iv) $\frac{\text{Net Profit}}{\text{Capital}} = \frac{1}{5}$ = Or, Net Profit = Rs. 32,00,000 × 1/5 = Rs. 6,40,000
(v) $\frac{\text{Net Profit}}{\text{Sales}} = \frac{1}{5}$ = Or, Sales = Rs. 6,40,000 × 1/5 = Rs. 6,40,000
(vi) Gross Profit = 25% of Rs. 32,00,000 = Rs. 8,00,000
(vii) Stock Turnover = $\frac{\text{Cost of Goods Sold (i.e. Sales - Gross Profit}}{\text{Average Stock}} = 10$
 $= \frac{\text{Rs.32,00,000-Rs.8,00,000}}{\text{Average Stock}} = 10$
Or, Average Stock = Rs. 2,40,000 Or, $\frac{\text{Opening Stock + Rs.4,00,000}}{2} = \text{Rs.2,40,000}$

Or, Opening Stock = Rs. 80,000

(7 Ratios * 1 mark = 7 marks)

Trading Account

Particulars	(Rs.)	Particulars	(Rs.)
To Opening Stock	80,000	By Sales	32,00,000
To Manufacturing exp./ Purchase (Balancing figure)	27,20,000		
To Gross Profit b/d	8,00,000	By Closing Stock	4,00,000
	36,00,000		36,00,000

(1 mark)

Profit and Loss Account

Particulars	(Rs.)	Particulars	(Rs.)
To Operating Expenses (Balancing figure)	1,60,000	By Gross Profit c/d	8,00,000
To Net Profit	6,40,000		
	8,00,000		8,00,000

(1 mark)

Balance Sheet

Capital and Liabilities	(Rs.)	Assets	(Rs.)
Capital	32,00,000	Fixed Assets	40,00,000
Liabilities	64,00,000	Current Assets:	
		Closing Stock	4,00,000
		Other Current Assets (Bal. figure)	52,00,000
	96,00,000		96,00,000

(1 mark)

Answer 2:

Computation of Degree of Operating Leverage (DOL), Degree of Financial Leverage (DFL) and Degree of Combined Leverage (DCL).

	Firm N	Firm S	Firm D
	17.500	6 700	21.000
Output (Units)	17,500	6,700	31,800
Selling Price/Unit	85	130	37
Sales Revenue (A)	14,87,500	8,71,000	11,76,600
Variable Cost/Unit	38.00	42.50	12.00
Less: Variable Cost (B)	6,65,000	2,84,750	3,81,600
Contribution (A-B)	8,22,500	5,86,250	7,95,000
Less: Fixed Cost	4,00,000	3,50,000	2,50,000
EBIT	4,22,500	2,36,250	5,45,000
Less: Interest on Loan	1,25,000	75,000	-
PBT	2,97,500	1,61,250	5,45,000
$DOL = \frac{C}{EBIT}$	$\frac{8,22,500}{4,22,500} = 1.95$	$\frac{5,86,250}{2,36,250} = 2.48$	$\frac{7,95,000}{5,45,000} = 1.46$
$EFL = \frac{EBIT}{PBT}$	$\frac{4,22,500}{2,95,500} = 1.42$	$\frac{2,36,250}{1,61,250} = 1.47$	$\frac{5,45,000}{5,45,000} = 1.00$

DCL = 0	DL x FL	1.95 x 1.42	2.48 x 1.47	1.46 x 1
OR		= 2.77	= 3.65	= 1.46
DCL =	Contribution PBT	$\frac{8,22,500}{2,97,500} = 2.76$	$\frac{5,86,250}{1,61,250} = 3.64$	$\frac{7,95,000}{5,45,000} = 1.46$

(10 marks)

Answer 3:

Statement showing the Evaluation of Debtors Policies

	Particulars	Present Policy Rs.	Proposed Policy I Rs.	Proposed Policy II Rs.
Α	Expected Profit :			
	(a) Credit Sales	225.00	275.00	350.00
	(b) Total Cost other than Bad Debts:			
	Variable Costs	135.00	165.00	210.00
	(c) Bad Debts	7.50	22.50	47.50
	(d) Expected Profit [(a)-(b)-(c)]	82.50	87.50	92.50
В	Opportunity Cost of Investment in Receivables *	5.40	8.25	14.00
С	Net Benefits [A-B]	77.10	79.25	78.50

(6 marks)

Recommendation: The Proposed Policy I should be adopted since the net benefits under this policy are higher than those under other policies. (1 n

Working Note:

* Calculation of Opportunity Cost of Average Investments

Opportunity Cost - 7	Cotal Cost x Collection I	Period Rate of Retu	ırn
opportunity Cost = 1	12	100	
Present Policy	= Rs. 135 lacs x 2.4/12	x 20% = Rs. 4	5.40 lakhs
Proposed Policy I	= Rs. 165 lacs x 3/12 x	= Rs. 8	3.25 lakhs
Proposed Policy II	= Rs. 210 lacs x 4/12 x	= Rs.	14.00 lakhs

Answer 4:

Working Notes:

1. Manufacturing Expenses		Rs.
Sales		24,00,000
Less: Gross Profit Margin at 20%		4,80,000
Total Manufacturing Cost		19,20,000
Less: Materials Consumed	6,00,000	
Wages	4,80,000	10,80,000
Manufacturing Expenses		8,40,000
Less: Cash Manufacturing Expenses $(50,000 \times 12)$		6,00,000
Depreciation		2,40,000

(3 marks)

2. Total Cash Costs	Rs.	
Manufacturing Costs	19,20,000	
Less: Depreciation	2,40,000	
Cash Manufacturing Costs	16,80,000	
Add: Administrative Expenses	1,50,000	
Add: Sales Promotion Expenses	75,000	
Total Cash Costs	19,05,000	

(4 marks)

Statement showing the Requirements of Working Capital of the Company

		Rs.
Current Assets:		
Debtors 1/6 the of Total Cash Costs ($1/6 \times \text{Rs.}$ 19,05,000) (Refer to Working		
Note 2)		3,17,500
Sales Promotion Expenses (prepaid)		18,750
Stock of Raw Materials (1 month)		50,000
Finished Goods (1/12 of Cash Manufacturing Costs) (Rs. 16,80,000 x 1/12) (Refer to Working Note 2)		1,40,000
Cash-in-Hand		80,000
		6,06,250
Less: Current Liabilities		
Creditors for Goods (2 months)	1,00,000	
Wages (1 month)	40,000	
Manufacturing Expenses (1 month)	50,000	
Administrative Expenses (1 month)	12,500	2,02,500
Net Working Capital		
		4,03,750
Add: Safety Margin @ 10%		40,375
Working Capital Required		4,44,125
	<u>.</u>	(6 marks)

Answer 5:

1. Dividend yield on Ordinary shares:

Dividend per share	= 20% of paid-up value.
	= Rs.20
therefore, Dividend yield	= (DPS/Market Price) x 100
	$= (.20/4) \times 100 = 5\%$

2. Cover for Preference and Equity Dividends:

(a) Pref. Div. cover	= PAT/Pref. Div.
	= Rs. 5,42,00/42,000 = 12.9 times
(b) Eq.Div. cover	= (PAT-Pref. Div.)/Equity Dividend
	= Rs.5,00,000/3,20,000 = 1.56 times

3.	Earning Yield	= EPS/Market Price
	= ((Rs.5,00,00/Rs.16,00,000) / Rs.4
	= 7	7.8%
4.	Price/Earnings Ratio	= Market price/EPS
	=]	Rs.4/.31 =12.9
5.	Net Cash Flow:	
Profit after Tax		5,42,000
+ Depreciation		1,20,000
-	Dividends on Pref. Share	s 42,000
-	Dividend on Equity share	es <u>3,20,000</u>
Net Cash Flow		<u>3,00,000</u>

(5 Ratios * 2 marks = 10 marks)