

# **SUGGESTED SOLUTION**

**IPCC MAY 2017 EXAM** 

FINANCIAL MANAGEMENT

Test Code - I M J 7 1 4 2

BRANCH - (MULTIPLE) (Date : 22.01.2017)

Head Office : Shraddha, 3<sup>rd</sup> Floor, Near Chinai College, Andheri (E), Mumbai – 69.

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Answer-1 : Gross Profit Gross Profit Margin

Rs. 54,000 20% Gross Profit Rs 54,000 /

∴ Sales

 $= \frac{\text{Gross Profit}}{\text{Gross Profit Margin}} \text{ Rs.54,000 / 0.20 = Rs.2,70,000}$ 

Credit Sales to Total Sales	= 80%		
∴ Credit Sales	= Rs. 2.70.000×0.80 = Rs	5. 2.16.000	
Total Assets Turnover	= 0.3 times		
	Sales		
.:. Total Assets	$= \frac{1}{\text{Total Accets Turnov}}$	var.	
	$\mathbf{D}_{0} = 2.70,000$		
	$=\frac{\text{RS.2,70,000}}{\text{RS.2}}$ = Rs. 9	,00,000	(2 Marks)
	0.3		
Sales – Gross Profit = COGS			
$\therefore$ COGS = Rs. 2, 70,000 – 54,	000 = Rs. 2, 16,000		
Inventory turnover = 4 times	0 1 6 000		
Inventory =COGS	$=\frac{2,16,000}{=}$ Rs.54,00	00	
' Inventory turno	ver 4		
Average Collection Period = 20	) days		
· Debters turnever	_ 360	-360/20-18	
Debtors turnover	- Average Collection	Period = 3007 20 = 18	
	Credit Sales	Rs 2, 16, 000	
Debtors	$=\frac{1}{1}$	$\frac{18.22,10,000}{18} = Rs.12,000$	
Current ratio		18	
current ratio	- 1.0 Dobtors   Inventor	v - Cash	
1.8	$= \frac{Debtors + Inventor}{C}$	y + Cash	
	Creditors		
1.8 Creditors	= (Rs.  12,000 + Rs.  54,00)	JU + Cash)	
1.8 Creditors	= KS. 66,000 + Cash		
Sharaholdors' Eurods	= 40% - Pc 6 00 000		
Shareholders Fullus	- RS. 0, 00,000	Da 2 40 000	
Creditors (Palance figure)	$= RS. 6, 00,000 \times 40\% =$	(3, 2, 40, 000) = Bc (60, 000)	
Creditors (Balance ligure)	= 9,00,000 = (0,00,000)	+ 2, 40,000) = KS. 80,000	(2) $(2)$
$\therefore$ Cash = (60,000×1.8) - 66,0	00 = KS. 42,000	Shoot	(Z Warks)
Liabilities	Datatice	Accoto	Pc
	RS.	Assets	KS.
Creditors (Bal. Fig)	60,000	Cash	42,000
Long torm dobt	2 40 000	Deblors	12,000
Shareholders' funds	2,40,000	Fixed Assets (Bal fig.)	7 92 000
	0,00,000	Tixeu Assets (bai fig.)	7,92,000
	9,00,000		9,00,000
Answer-2 ·			(2 Widtks)
Allower 2.	Computation of T	otal Cash Cost:	
		Rs.	Rs.
Sales			90.00.000
Less: Gross profit (25% x sale	s revenue)		22 50 000
Total Manufacturing cost (A)	stevender		67.50.000
Less: Material consumed cost		22.50.000	07,00,000
Less: Wages paid		18.00.000	40,50.000
Manufacturing expenses		<u> </u>	27,00,000
Less: Cash manufacturing exp	enses (Rs. 2,00,000 × 12	2)	<u>24,</u> 00,000
Depreciation: (B)			2 00 000
			3,00,000
Total Manufacturing cost : (C)	= (A) – (B)		3,00,000 64,50,000
Total Manufacturing cost : (C) Add: Administrative expenses	= (A) – (B)		3,00,000 64,50,000 6,00,000
Total Manufacturing cost : (C) Add: Administrative expenses Add: Sales promotion expenses	= (A) – (B) S es		3,00,000 64,50,000 6,00,000 <u>12,00,000</u>

(2.5 Marks)

Estimation of Current Assets :

Rs.

Debtors	20,62,500
(Total cash cost × 3/12) or (Rs. 82,50,000 × 3/12)	
Cash balance	2,50,000
Pre-paid sales promotion expenses	3,00,000
Raw materials stock (Material consumed / 12) or (Rs.22,50,000 / 12)	1,87,500
Finished goods stock	10,75,000
(Total cash cost x 2/12) or (Rs. 64,50,000 x 2/12)	
Total Current Assets	38,75,000
	(2 E Marka)
	(2.5 Warks)
Estimation of Current Liabilities:	(2.5 Marks)
Estimation of Current Liabilities: Sundry creditors	2,81,250
Estimation of Current Liabilities: Sundry creditors Material cost (Rs.22,50,000 x 1.5 months / 12 months)	2,81,250
Estimation of Current Liabilities: Sundry creditors Material cost (Rs.22,50,000 x 1.5 months / 12 months) Manufacturing expenses outstanding	2,81,250 2,00,000
Estimation of Current Liabilities: Sundry creditors Material cost (Rs.22,50,000 x 1.5 months / 12 months) Manufacturing expenses outstanding Wages outstanding (Rs. 18,00,000 × 1/12 months)	2,81,250 2,00,000 1,50,000
Estimation of Current Liabilities: Sundry creditors Material cost (Rs.22,50,000 x 1.5 months / 12 months) Manufacturing expenses outstanding Wages outstanding (Rs. 18,00,000 × 1/12 months) Administrative expenses outstanding (Rs.6,00,000 × 1 month / 12 months)	2,81,250 2,00,000 1,50,000 <u>50,000</u>

33,53,438

31,93,750

<u>1,59,688</u>

## (3 Marks)

### Answer-3:

Add: Safety Margin @ 5%

Total Working Capital

Working capital requirements : (CA - CL) (On cash cost basis)

Statement	showing	<b>Evaluation</b>	of the	Proposed	Credit	Policies
Statement	Showing	Lvaluation	or the	rioposeu	cicuit	i oncies

				(Amou	nt Rs. in Lakh	s)
			Credit polici	es		
				Proposed		
	Present	1	II	111	IV	
Average Collection Period (days)	(20 days)	(30 days)	(40 days)	(50 days)	(60 days)	
Sales (Annual)	60.00	65.00	70.00	74.00	75.00	
Less: Variable cost (70% of sales)	42.00	45.50	49.00	51.80	52.50	
Contribution	18.00	19.50	21.00	22.20	22.50	
Less: Fixed Costs	8.00	8.00	8.00	8.00	8.00	
Profit	10.00	11.50	13.00	14.20	14.50	
Increase in profit compared to present prof	it: (A) -	1.50	3.00	4.20	4.50	
Investments in debtors	50.00	53.50	57.00	59.80	60.50	
(Variable cost+ Fixed cost)						
Debtors turnover	18	12	9	7.2	6	
(360 days/Average collection period)						
Average investment in debtors	2.78	4.46	6.33	8.3	10.08	
(Investment in debtors/ Debtors turnover)						
Additional investment in debtors						
compared to present level	-	1.68	3.55	5.52	7.30	
Required return on additional investment (2	25%):(B) -	0.42	0.89	1.38	1.83	
Incremental profit: (A)–(B)	-	1.08	2.11	2.82	2.67	

(4 Marks)

**Decision:** The Company should adopt the credit policy III (with collection period of 50 days) as it yields a maximum profit to the company.

#### Another method of solving the above problem is as under: Statement Showing Evaluation of the proposed Credit Policies

					(Rs. in Lakhs)
Particulars	Present	Policy I	Policy II	Policy III	Policy IV
	policy 20 days	30 days	40 days	50 days	60 days
A. Expected profit :	60.00	65.00	70.00	74.00	75.00
(a) Sales					
(b) Total Cost:					
(i) Variable Cost @ 70%	42.00	45.50	49.00	51.80	52.50
(ii) Fixed Costs	<u>8.00</u>	8.00	8.00	8.00	8.00
	50.00	53.50	57.00	59.80	60.50
(c) Expected Profit	10.00	11.50	13.00	14.20	14.50
B. Opportunity Cost of Inve	stment in				
Receivables	0.69	1.11	1.58	2.08	2.52
C. Net Benefits [A-B]	9.31	10.39	11.42	12.12	11.98
					(2 Marks)

**Recommendation:** The credit policy III (i.e. 50 days credit) should be adopted since the net benefits under this policy are higher than those under other policies.

#### Working Note

### Calculation of Opportunity Cost of Investments in Receivables:

Opportunity Cost - Total Cost x	CollectionPeriod	<sup>v</sup> Rate of Return
	360	100
Present Policy = Rs.50 lakhs x $\frac{1}{3}$	$\frac{20}{360} \times \frac{25}{100} = \text{Rs.0.69}$	lakh
Proposed Policy I = Rs.53.50 lak	hs x $\frac{30}{360}$ x $\frac{25}{100}$ = Rs	.1.11 lakh
Present Policy II = Rs.57.00 lakh	$s \times \frac{40}{360} \times \frac{25}{100} = \text{Rs.}$	1.58 lakh
Present Policy III = Rs.59.80 lakh	$15 \times \frac{50}{360} \times \frac{25}{100} = \text{Rs.}$	2.08 lakh
Present Policy IV = Rs.60.50 lak	$\sin x  \frac{60}{360} x \frac{25}{100} = \text{Rs.}$	.2.52 lakh

### Answer-4 :

(i) **Calculation of Sales** Fixed assets Rs.(1,62,50,000 + 30,00,000) = 1,92,50,000  $\mathsf{Sales} = \frac{1,92,50,000}{1.4} = 1,37,50,000$ Cost of goods sold = 1,37,50,000 × 0.90 = 1,23,75,000 Material = 1,37,50,000 × 0.40 = 55,00,000 Depreciation = 1,37,50,000 × 0.05 = 6,87,500 = 1,37,50,000 × 0.10 Net profit = 13,75,000 (1.5 Marks) **Calculation of Net Fixed Assets** Rs. **Opening balance** 1,62,50,000 Add: Purchases 30,00,000 1,92,50,000 Less: Accumulated Depreciation 52,00,000 Additional Depreciation <u>6,87,500</u> 58,87,500 Closing balance of fixed assets 1,33,62,500 (1.5 Marks)

(2 Marks)

Calculation of Closing Stock		
Cost of goods sold		
Average stock = $\frac{1}{\text{Stock turnover ratio}}$		
1,23,75,000		
$= \frac{6}{6} = 20,62,500$		
(Opening Stock + Closing Stock)		
Average Stock = $\frac{2}{2}$		
(19,50,000 + Closing Stock)		
$20,62,500 = \frac{2}{2}$		
Closing stock = 41,25,000 – 19,50,000 =	21,75,000	
Calculation of Debtors = 1,37,50,000 × 0.10 =	13,75,000	
Calculation of Creditors = $55,00,000 \times 0.25$ =	13,75,000	
		(1.5 Marks)
Calculation of Interest and Provision for Taxation		12 75 000
Net profit less: Interest (19.50.000 x 10%)		2 55 500
(5 50 000 × 11%)		<u>2,55,500</u> 11 19 500
Less: Taxes		3.35.850
Net profit available for dividend		7,83,650
Less: Preference share dividend		2,60,000
Less: Equity dividend @ 7%		<u>4,20,000</u>
Transfer to reserves and surplus		<u>1,03,650</u>
Reserves and Surplus		
Opening balance		14,00,000
Add: Current balance		<u>1,03,650</u>
		<u>15,03,650</u> (1 E Marka)
		(1.5 Marks)

	Projected Cash Flow Statement		
(i)	Cash flow from Operating Activities		
	Profit after taxation		7,83,650
	Depreciation added back		<u>6,87,500</u>
			14,71,150
	Add: Increase in current liabilities and decrease in current assets		
	Provision for taxation		3,35,850
	Debtors (26,00,000 – 13,75,000)		12,25,000
	Less: Increase in current assets and decrease in current liabilities		
	Stock (21,75,000 – 19,50,000)	(2,25,000)	
	Creditors (13,75,000 – 32,50,000)	<u>(18,75,000)</u>	(21,00,000)
	Net Cash from Operating Activities		<u>9,32,000</u>
(ii)	Cash flow from Investing Activities		
	Purchase of Fixed Assets		(30,00,000)
(iii)	Cash flow from Financing Activities		
	Issue of Debenture	5,50,000	
	Issue of equity share capital	30,00,000	
	Dividend paid	<u>(6,80,000)</u>	<u>28,70,000</u>
	Net increase in cash		8,02,000
	Opening balance of cash		<u>2,50,000</u>
	Closing balance		<u>10,52,000</u>
			(3 Marks)

Projected Balance Sheet as on 31st March, 2008						
Liabilities Rs. ('000) Assets Rs.						
Equity share capital9,000Fixed Assets (at cost)19,250						
3,250	Less : Depreciation written off	<u>5,887.50</u>	13,362.50			
	Rs. ('000) 9,000 3,250	Rs. ('000)       Assets Rs.         9,000       Fixed Assets (at cost)         3,250       Less : Depreciation written off	Rs. ('000)Assets Rs.9,000Fixed Assets (at cost)19,2503,250Less : Depreciation written off5,887.50			

Reserv	es & Surplus	1,503.65	Stock		2,175
10% &	11% Debentures	2,500			
Sundry	Creditors	1,375	Sundry debtors		1,375
Provisi	on for taxation	335.85			1,052
Total		17,964.50	Total		17,964.50
Δnswe	vr-5 ·				(S Warks)
(i)	Net Sales : Rs. 30 crores				
()	EBIT = 12% on sales = Rs. 3	.6 crores			
	Poturn on Conital Employe	d (pro tox) -	EBIT _	3.6 x100-20%	
	Return on Capital Employe	Cap	ital Employed 10	$\frac{1}{0+2+6}$ x100-20%	
	After tax it will be = 20% (1	0.4)= 12 %.			
	Particulars				Rs. in crores
	EBIT				3.6
	Less: Interest on Debt (15%	6 of 6 crores)			<u>0.9</u>
	EBT				2.7
	Less : Tax @ 40%				<u>1.08</u>
	EAI				1.62
	Farnings available for Equi	tv Shareholders			<u>0.20</u> 1.36
	Return on equity = $1.36/10$	) × 100 = 13.6%			
					(3 Marks)
Segme	ents due to the presence of I	Preference Share c	apital and Borrowi	ng (Debentures)	
Segme	nt of ROE due to preference	capital : (12% - 13	%) × Rs. 2 Crore = -	2%	
Segme	nt of ROE due to Debenture.	s: (12% - 9%) × Rs.	6 Crores = 18 %		
Cost of	-2 % +18 % = 10 % f debenture (after tax) = 15%	(1-0 <i>1</i> ) = 9%			
The we	eighted average cost of capit	al is as follows			
	·				
Source			Proportion	Cost (%)	WACC (%)
Source (i)	e Equity		Proportion 10/18	<b>Cost (%)</b> 13.60	<b>WACC (%)</b> 7.56
Source (i) (ii)	e Equity Preference shares		Proportion           10/18           2/18	Cost (%) 13.60 13.00	<b>WACC (%)</b> 7.56 1.44
Source (i) (ii) (iii)	e Equity Preference shares Debt		Proportion           10/18           2/18           6/18	<b>Cost (%)</b> 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00
Source (i) (ii) (iii)	e Equity Preference shares Debt <b>Total</b>		Proportion 10/18 2/18 6/18	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00
Source (i) (ii) (iii) (iii)	e Equity Preference shares Debt Total Financial Leverage =	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$	Proportion           10/18           2/18           6/18           3	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks)
Source (i) (ii) (iii) (iii)	Equity Preference shares Debt Total Financial Leverage = F Combined Leverage = F	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$	Proportion           10/18           2/18           6/18	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks)
Source (i) (ii) (iii) (iii)	Equity Preference shares Debt Total Financial Leverage = F Combined Leverage = F	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$	Proportion 10/18 2/18 6/18 3	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks)
Source (i) (ii) (iii) (iii)	Equity Preference shares Debt Total Financial Leverage = F Combined Leverage = F 3 = 1.33 × OL Or, OL = F	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ FL × OL $\frac{3}{1.33}$ Or, Operatin	Proportion           10/18           2/18           6/18   3 ng Leverage = 2.26	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks)
Source (i) (ii) (iii) (iii)	Equity Preference shares Debt Total Financial Leverage = F Combined Leverage = F 3 = 1.33 × OL Or, OL = F	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ =L × OL $\frac{3}{1.33}$ Or, Operatin	Proportion           10/18           2/18           6/18   3 ng Leverage = 2.26	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (iii) Answe	Equity Preference shares Debt Total Financial Leverage = - Combined Leverage = F 3 = 1.33 × OL Or, OL = - er-6 :	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ =L × OL $\frac{3}{1.33}$ Or, Operatin	Proportion           10/18           2/18           6/18   3 ng Leverage = 2.26	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (iii) (ii) Answe (a) (i)	Equity Preference shares Debt Total Financial Leverage = - Combined Leverage = F 3 = 1.33 × OL Or, OL = - er-6 : Working Notes: Calculation of Salas	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ FL × OL $\frac{3}{1.33}$ Or, Operatin	Proportion           10/18           2/18           6/18   3 ng Leverage = 2.26	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (ii) (ii) Answe (a) (i)	Equity Preference shares Debt Total Financial Leverage = - Combined Leverage = F 3 = 1.33 × OL Or, OL = - er-6: Working Notes: Calculation of Sales Fixed Assets = 1	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ <sup>EL × OL</sup> $\frac{3}{1.33}$ Or, Operatin	Proportion           10/18           2/18           6/18   3 ng Leverage = 2.26	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (iii) (ii) Answe (a) (i)	Equity Preference shares Debt Total Financial Leverage = $\frac{1}{2}$ Combined Leverage = $\frac{1}{2}$ er-6: Working Notes: Calculation of Sales $\frac{\text{Fixed Assets}}{\text{Salas}} = \frac{1}{2}$	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ FL × OL $\frac{3}{1.33}$ Or, Operatin	Proportion           10/18           2/18           6/18   3 ng Leverage = 2.26	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks) (1 Mark)
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Source (i) (ii) (iii) (iii) (ii) Answe (a) (i)	Equity Preference shares Debt Total Financial Leverage = $\frac{1}{2}$ Combined Leverage = F $3 = 1.33 \times OL \text{ Or, } OL = \frac{1}{2}$ er-6: Working Notes: Calculation of Sales $\frac{\text{Fixed Assets}}{\text{Sales}} = \frac{1}{3}$ $\therefore \frac{26,00,000}{\text{Sales}} = \frac{1}{2} \Rightarrow \text{Sale}$	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ =L × OL $\frac{3}{1.33}$ Or, Operation es = Rs.78,00,000	Proportion         10/18         2/18         6/18	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (iii) (ii) Answe (a) (i)	Equity Preference shares Debt Total Financial Leverage = $\frac{1}{3}$ Combined Leverage = F $3 = 1.33 \times OL \text{ Or, } OL = \frac{1}{3}$ er-6: Working Notes: Calculation of Sales $\frac{\text{Fixed Assets}}{\text{Sales}} = \frac{1}{3}$ $\therefore \frac{26,00,000}{\text{Sales}} = \frac{1}{3} \Rightarrow \text{Sale}$	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ =L × OL $\frac{3}{1.33}$ Or, Operating es = Rs.78,00,000	Proportion           10/18           2/18           6/18   3 3 b)	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (iii) (ii) (ii) (ii)	Equity Preference shares Debt Total Financial Leverage = $\frac{1}{3}$ Combined Leverage = F $3 = 1.33 \times OL \text{ Or, } OL = \frac{1}{3}$ er-6: Working Notes: Calculation of Sales $\frac{\text{Fixed Assets}}{\text{Sales}} = \frac{1}{3}$ $\therefore \frac{26,00,000}{\text{Sales}} = \frac{1}{3} \Rightarrow \text{Sale}$ Calculation of Current Asset Fixed Assets = 13	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ FL × OL $\frac{3}{1.33}$ Or, Operatin es = Rs.78,00,000 ets	Proportion           10/18           2/18           6/18           3           ng Leverage = 2.26	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 12.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (ii) (ii) (ii) (ii)	Equity Preference shares Debt Total Financial Leverage = $-1$ Combined Leverage = $-1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ Or, OL} = -1$ $3 = 1.33 \times OL \text{ OL} = $	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ <sup>EL × OL</sup> $\frac{3}{1.33}$ Or, Operatines es = Rs.78,00,000 ets	Proportion         10/18         2/18         6/18	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (iii) (ii) (ii)	Equity Preference shares Debt Total Financial Leverage = $\frac{1}{2}$ Combined Leverage = $\frac{1}{3}$ $3 = 1.33 \times OL \text{ Or, } OL = \frac{1}{3}$ er-6: Working Notes: Calculation of Sales $\frac{\text{Fixed Assets}}{\text{Sales}} = \frac{1}{3}$ $\therefore \frac{26,00,000}{\text{Sales}} = \frac{1}{3} \Rightarrow \text{Sale}$ Calculation of Current Asset $\frac{\text{Fixed Assets}}{\text{Current Assets}} = \frac{13}{11}$	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ FL × OL $\frac{3}{1.33}$ Or, Operatin es = Rs.78,00,000 ets	Proportion           10/18           2/18           6/18   3 ng Leverage = 2.26	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (ii) (ii) (ii) (ii)	Equity Preference shares Debt Total Financial Leverage = $\frac{1}{3}$ Combined Leverage = $\frac{1}{3}$ $3 = 1.33 \times OL \text{ Or, } OL = \frac{1}{3}$ er-6: Working Notes: Calculation of Sales $\frac{\text{Fixed Assets}}{\text{Sales}} = \frac{1}{3}$ $\therefore \frac{26,00,000}{\text{Sales}} = \frac{1}{3} \Rightarrow \text{Sale}$ Calculation of Current Asset $\frac{\text{Fixed Assets}}{\text{Current Assets}} = \frac{13}{11}$ $\therefore \frac{26,00,000}{\text{Current Assets}} = \frac{13}{11}$	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ <sup>5</sup> L × OL $\frac{3}{1.33}$ Or, Operatin es = Rs.78,00,000 ets $\Rightarrow$ Current Assets	Proportion 10/18 2/18 6/18 3 ag Leverage = 2.26 b a = Rs.22,00,000	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 (2 Marks) (1 Mark)
Source (i) (ii) (iii) (iii) (ii) (ii) (ii)	Equity Preference shares Debt Total Financial Leverage = $\frac{1}{2}$ Combined Leverage = $\frac{1}{3}$ $3 = 1.33 \times OL \text{ Or, } OL = \frac{1}{3}$ er-6: Working Notes: Calculation of Sales $\frac{\text{Fixed Assets}}{\text{Sales}} = \frac{1}{3}$ $\therefore \frac{26,00,000}{\text{Sales}} = \frac{1}{3} \Rightarrow \text{Sale}$ Calculation of Current Asset $\frac{\text{Fixed Assets}}{\text{Current Assets}} = \frac{13}{11}$ $\therefore \frac{26,00,000}{\text{Current Assets}} = \frac{13}{11}$	$\frac{\text{EBIT}}{\text{EBT}} = \frac{3.6}{2.7} = 1.3$ $= 1$	Proportion         10/18         2/18         6/18    3 3 a = Rs.22,00,000 b Direct Wages	Cost (%) 13.60 13.00 9.00	WACC (%) 7.56 1.44 3.00 (2 Marks) (1 Mark)

	Sales Less: Gross Profit Works Cost		<b>Rs.</b> 78,00,000 <u>11,70,000</u> <u>66,30,000</u>
	Raw Material Consumption (20% of Works Co Direct Wages (10% of Works Cost)	st) Rs.13,26,000 Rs. 6,63,000	
(iv)	Calculation of Stock of Raw Materials (= 3 mo	nths usage)	
	= 13,26,000 × $\frac{3}{12}$ = Rs. 3,31,500		
(v)	Calculation of Stock of Finished Goods (= 6% of	of Works Cost)	
	$= 66,30,000 \times \frac{6}{100} = \text{Rs. } 3,97,800$		
(vi)	Calculation of Current Liabilities		
	$\frac{\text{Current Assets}}{\text{Current Liabilities}} = 2$ $\frac{22,00,000}{\text{Current Liabilities}} = 2 \implies \text{Current Liabilities}$	ties = Rs.11,00,000	
(vii)	Calculation of Debtors		
	Average collection period = $\frac{\text{Debtors}}{\text{Credit Sales}} \times 3$	865	
	$\frac{\text{Debtors}}{78,00,000} \times 365 = 60 \implies \text{Debtors Rs.12},$	82,191.78 or Rs.12,82,192	
(viii)	Calculation of Long term Loan		
	$\frac{\text{Long term Loan}}{\text{Current Liabilities}} = \frac{2}{1}$		
	$\frac{\text{Long Term Loan}}{\text{Long term loan}} = \frac{2}{2} \implies \text{Long term loan}$	= Rs.22,00,000	
(ix)	11,00,000 1		
			Rs.
	Current assets Less: Debtors	12,82,192	22,00,000
	Raw materials stock	3,31,500	
	Finished goods stock Cash balance	<u>3,97,800</u>	<u>20,11,492</u> <u>1,88,508</u>
(x)	Calculation of Net worth		
(~)	Fixed Assets		26,00,000
	Current Assets		<u>22,00,000</u>
	lotal Assets Less: Long term Loan	22.00.000	48,00,000
	Current Liabilities	<u>11,00,000</u>	<u>33,00,000</u>
	Net worth		<u>15,00,000</u>
	Net worth = Share capital + Reserves = 15,00, Capital $-1 \rightarrow$ Shorte Capital	100	2 00 000
	Reserves and Surplus $4 \rightarrow 3$ Share Cap	$x_1 - 15,00,000 \ x - = KS$	,,
	Reserves and Surplus = 15,00,000 x $\frac{4}{5}$ = Rs.1	2,00,000	
	5		(10 x 0 5 = 5 Marks

Profit and Loss Account of PQR Ltd. for the year ended 31st December, 2006					
Particulars	Rs.	Particulars	Rs.		
To Direct Materials	13,26,000	By Sales	78,00,000		
To Direct Wages	6,63,000				
To Works (Overhead) Balancing figure	46,41,000				
To Gross Profit c/d (15% of Sales)	11,70,000				
	78,00,000		78,00,000		
To Selling and Distribution					
Expenses (Balancing figure)	5,46,000	By Gross Profit b/d	11,70,000		
To Net Profit (8% of Sales)	6,24,000				
	11,70,000		11,70,000		
			(1.5 Marks)		
	<b>Balance Sheet</b>	of PQR Ltd.			
	as at 31st Dec	ember, 2006			
Liabilities	Rs.	Assets	Rs.		
Share Capital	3,00,000	Fixed Assets	26,00,000		
Reserves and Surplus	12,00,000	Current Assets:			
Long term loans	22,00,000	Stock of Raw Material	3,31,500		
Current liabilities	11,00,000	Stock of Finished Goods	3,97,800		
		Debtors	12,82,192		
		Cash	1,88,508		
	48,00,000		48,00,000		

(1.5 Marks)