Homework

(Sol-1)

ESTIMATION OF WORKING CAPITAL

Statement of Working Capital requirements (cash cost basis)

		(Rs.)	(Rs.)
A.	Current Asset		
	Inventory:		
	Raw materials : $\left(\frac{\text{Rs.9,00,000}}{12 \text{ months}} \ge 1 \text{ month}\right)$	75,000	Co
	Finished Goods : $\left(\frac{\text{Rs.25,80,000}}{12 \text{ months}} \ge 1 \text{ month}\right)$	2,15,000	
	Receivables (Debtors) : $\left(\frac{\text{Rs.29,40,000}}{12 \text{ months}} \ge 2 \text{ months}\right)$	4,90,000	
	Sales Promotion expenses paid in advance		
	$\left(\frac{\text{Rs.1,20,000}}{12 \text{ months}} \ge 3 \text{ months}\right)$	30,000	
	Cash balance	1,00,000	9,10,000
	Gross Working Capital		9,10,000
B.	Current Liabilities: Payables:		
	Creditors for materials $\left(\frac{\text{Rs.9,00,000}}{12 \text{ months}} \ge 2 \text{ months}\right)$	1,50,000	
	Wages outstanding $\left(\frac{\text{Rs.7,20,000}}{12 \text{ months}} \times 1 \text{ month}\right)$	60,000	
	Manufacturing expenses outstanding		
	$\left(\frac{\text{Rs.9,60,000}}{12 \text{ months}} \ge 1 \text{ month}\right)$	80,000	
	Administrative expenses outstanding		
	$\left(\frac{\text{Rs.2,40,000}}{12 \text{ months}} \times 1 \text{ month}\right)$	20,000	<u>3,10,000</u>
	Net working capital (A - B)		6,00,000
	Add: Safety margin @ 20%		1,20,000
	Total Working Capital requirements		7,20,000

Working Notes:

(i)	Computation of Annual Cash Cost of Production	(Rs.)
	Material consumed	9,00,000
	Wages	7,20,000
	Manufacturing expenses	9,60,000
	Total cash cost of production	25,80,000
(ii)	Computation of Annual Cash Cost of Sales:	(Rs.)
	Cash cost of production as in (i) above	25,80,000
	Administrative Expenses	2,40,000
	Sales promotion expenses	1,20,000
	Total cash cost of sales	29,40,000

Since, the cash manufacturing expenses is already given in the question hence, the amount of depreciation need not to be computed. However, if it were required to be then it could be computed as follows:

	(Rs.)
Sales	36,00,000
Less: Gross profit (25% of Rs.36,00,000)	(9,00,000)
Cost of Production (including depreciation)	27,00,000
Less: Cash Cost of Production (as calculated above)	(25,80,000)
Depreciation (Balancing figure)	1,20,000

(Sol-2)

(a) Computation of Operating Cycle

(1) Raw Material Storage Period (R)

Average Stock of Raw Material

Raw Material Storage Period (R) = $\frac{1}{\text{Daily Average Consumption of Raw Material}}$

$$=\frac{(1,80,000+2,00,000)/2}{10,80,000/360}=63.33$$
 Days

Raw Material Consumed = Opening Stock + Purchases – Closing Stock

= 1,80,000 + 11,00,000 - 2,00,000 = Rs.10,80,000

(2) Conversion/Work-in-Process Period (W)

Conversion/Processing Period =
$$\frac{\text{Average Stock of WIP}}{\text{Daily Average Production Cost}}$$
$$= \frac{(60,000+1,00,000)/2}{15,40,000/360} = 18.7 \text{ days}$$

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	Produc	tion Cost:				
	Openin	g Stock of WIP	=		60.000	
	Add: Ra	aw Material Consumed	=		10,80,000	
	Add: W	ages		=	3.00.00	00
	Add: Pr	oduction Expenses		=	2.00.00	00
	/ 441 / 1				<u>16.40.00</u>)()
	Less: Cl	osing Stock of WIP		=	1.00.00	0
	Produc	tion Cost			15 40 00	<u></u> 10
(3)	Finishe	d Goods Storage Period (E)			<u>10,40,00</u>	
(3)	THISIC		erage Stock of F	inished	Goods	
	Finishe	d Goods Storage Period = $\frac{AW}{Dail}$	ly Average Cost	of Goo	ds Sold	
	(0.0		ly riverage Cost	01 000	us 501u	
	$=\frac{(2,6)}{(2,6)}$	$\frac{(0,000+3,00,000)}{2} = 67.19$	Davs			
		15,00,000/360	2 4 9 5			
	Cost of	Goods Sold				Rs.
	Openin	g Stock of Finished Goods				2,60,000
	Add: Pr	oduction Cost				15,40,000
						18,00,000
	Less: Cl	osing Stock of Finished Goods				3,00,000
		5				15.00.000
(4)	Debtor	s Collection Period (D)				
• •		Averag	e Debtors (1	50,000	+2.00.000)/2	
	Debtor	s Collection Period = $\frac{AVClag}{Daily Av}$	$\frac{c D c b c b c s}{c D c b c b c s} = \frac{(1)}{c c s}$	20.00	12,00,000/2	= 31.5 Days
<i>(</i> _)	• •••	Daily Av	erage sales	20,0	0,000/360	
(5)	Credito	rs Payment Period (C)				
	Credito	rs Payment Period = —	Average Creditor	rs		
		Dai	ly Average Purc	hase		
		(2,0	00,000+2,40,00	00)/2		
		=	11.00.000/36	=	= 72 Days	
(6)	Duratio	on of Operating Cycle (0)	11,00,0007.50	0		
(0)						
	0	- K + W + F + D - C - 62 22 + 10 7 + 67 10 + 21 5 -	72			
		-03.33 + 10.7 + 07.13 + 31.3 -	- 72			
	Compu	- 108.75 udys				
	(:)	Number of Operating Cucles r				
	(1)	- 260 (Duration Operating Cycles p	er tear	2 211		
	(::)	- Sol/Duration Operating Cycl	ie – 500/108.72 –	5.511	De	
	(11)	Total Operating Expenses		1 - 00 0	KS.	
		Total Cost of Production		15,00,0	00	
		Add: Administration Expenses		1,75,0	00	
		Selling Expenses		/5,0	00	
				<u>17,50,0</u>	00	
	(;;;;)	Working Canital Required				
	(11)	working Capital Required	Total	Onaratii	na Expanses	
		Working Capital Required	$=\frac{10tal}{10}$			
			Number of (Operatin	ng Cycles per ye	ar
			_ 17,50,000	$R_{S} \leq 2S$	541	
			3.311	113.3,20	,JT1	
	[Note :	The solution can also be solved	by taking of 365	days a y	ear.]	
			. –			

INTER C.A. – FINANCIAL MANAGEMENT

(Sol-3)

Estimation of Working Capital Needs

	(Amount in Rs.)	(Amount in Rs.)
A.	Current Assets		
(i)	Inventories:		
	Raw material (4 weeks)		
	$\left(\frac{78,000 \text{ units x Rs.117}}{52 \text{ weeks}} \text{ x 4 weeks}\right)$	7,02,000	C
	WIP Inventory (2 weeks)		
	- Material $\left(\frac{78,000 \text{ units x Rs.117}}{52 \text{ weeks}} \times 2 \text{ weeks}\right) \times 0$	0.80 2,80,800	
	- Labour and Overheads (other than depreciatio	n) 5,13,000	\mathbf{O}^{*}
	$\left(\frac{78,000 \text{ units x Rs.129}}{52 \text{ weeks}} \text{ x 2 weeks}\right) \text{ x 0.60}$	5	
	Finished goods (3 weeks)		
	$\left(\frac{78,000 \text{ units x Rs.246}}{52 \text{ weeks}} \times 3 \text{ weeks}\right)$	<u>11,07,000</u>	26,02,800
(ii)	Receivables (Debtors) (6 weeks)		
	$\left(\frac{78,000 \text{ units x Rs.246}}{52 \text{ weeks}} \times 6 \text{ weeks}\right) \times \frac{4}{5th}$		17,71,200
(iii)	Cash and bank balance		<u>2,50,000</u>
	Total Current Assets		<u>43,43,200</u>
B.	Current Liabilities:		
(i)	Payables (Creditors) for materials (8 weeks)		
	$\left(\frac{78,000 \text{ units x Rs.117}}{52 \text{ weeks}} \times 8 \rightarrow \text{ weeks}\right)$		14,04,000
(ii)	Outstanding wages (1 week)		
	$\left(\frac{78,000 \text{ units x Rs.49}}{52 \text{ weeks}} \times 1 \text{ week}\right)$		73,500
(iii)	Outstanding overheads (2 weeks)		
	$\left(\frac{78,000 \text{ units x Rs.80}}{52 \text{ weeks}} \times 2 \text{ weeks}\right)$		2,40,000
	Total Current Liabilities		<u>17,17,500</u>
	Net Working Capital Needs (A – B)		26,25,700

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(Sol-4)

Working Notes:

1. Raw material inventory: The cost of materials for the whole year is 60% of the Sales value.

 $= \frac{54,000 \text{ units x } (60\% \text{ of } \text{Rs.200})}{12 \text{ months}} \text{ x 2 months} = \text{Rs.10,80,000}$

2. Work-in-process: (Each unit of production is expected to be in process for one month):



3. Finished goods inventory:
$$\frac{54,000 \text{ units } x (90\% \text{ of } \text{Rs.}200)}{12 \text{ months}} \times 1 \text{ month} = \text{Rs.}8,10,000$$
4. Receivables:
$$\frac{54,000 \text{ units } x (90\% \text{ of } \text{Rs.}200)}{12 \text{ months}} \times 1.5 \text{ month} = \text{Rs.}12,15,000$$
5. Payable to suppliers:
$$\frac{54,000 \text{ units } x (60\% \text{ of } \text{Rs.}200)}{12 \text{ months}} \times 1 \text{ month} = \text{Rs.}5,40,000$$
6. Direct Wages payable:
$$\frac{54,000 \text{ units } x (10\% \text{ of } \text{Rs.}200)}{12 \text{ months}} \times 1 \text{ month} = \text{Rs.}90,000$$

Calculation of Working Capital Requirement

		(Rs.)	(Rs.)
A.	Current Assets		
(i)	Inventories:		
	- Raw Materials	10,80,000	
	- Work-in-process	6,75,000	
	- Finished goods	8,10,000	25,65,000
(ii)	Receivables		12,15,000
(iii)	Cash in hand (40% of Rs.6,30,000)		2,52,000

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	Total Current Assets	40,32,000
B.	Current Liabilities:	
(i)	Payables for raw materials	5,40,000
(ii)	Direct wages payables	90,000
		6,30,000
	Net Working Capital (A – B)	34,02,000
Add:	Safety margin (15% of Net Working Capital)	5,10,300
	Working capital requirement	39,12,300

(Sol-5)

Effect of Alternative Working Capital Policies

Working Capital Policy	Conservative (Rs.)	Moderate (Rs.)	Aggressive (Rs.)
Sales	20,00,000	20,00,000	20,00,000
Earnings before Interest and Taxes (EBIT)	2,00,000	2,00,000	2,00,000
Current Assets	5,00,000	4,00,000	3,00,000
Fixed Assets	5,00,000	5,00,000	5,00,000
Total Assets	10,00,000	9,00,000	8,00,000
*Return on Total Assets (EBIT÷ Total Assets)	20%	22.22%	25%
Current Assets/Fixed Assets	1.00	0.80	0.60

The aforesaid calculation shows that the conservative policy provides greater liquidity (solvency) to the firm, but lower return on total assets. On the other hand, the aggressive policy gives higher return, but low liquidity and thus is very risky. The moderate policy generates return higher than Conservative policy but lower than aggressive policy. This is less risky than aggressive policy but more risky than conservative policy.

In determining the optimum level of current assets, the firm should balance the profitability – solvency tangle by minimizing total costs – Cost of liquidity and cost of illiquidity.

*Normally we use ROTA = $\frac{PAT}{TA}$ x 100 but in this sum we assume EBIT = PAT.

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Statement she	owing W.C. requiremen	t
Particulars		Amount (Rs.)
Current Assets :		
Stock :		
Raw material (800000 x 3/17)		2,00,000
WIP		-
F.G.		3,25,000
Debtors (2440000 x 15/12)		3,05,000
Cash		<u>60,000</u>
(A)		8,90,000
Current Liabilities :		
Creditors (800000 + 200000 x 4/12)		3,33,333
0/S Wages (600000 x 1/12)		50,000
O/S O/H (F + A + S) (1365000 x 0.5/12)		<u>36,875</u>
(B)	CV	(4,40,208)
W.C. requirement (A-B) 90%		4,.49,792
(+) Safety Margin <u>10%</u>		49,977
100%		4,99,769
W.N.		
Material	8,00,000	(20 x 40,000)
(+) Wages	6,00,000	(15 x 40,000)
(+) FOH (V)	6,00,000	(15 x 40,000)
(F)	<u>6,00,000</u>	(10 x 60,000)
СОР	26,00,000	
(+) Op. Stock FG	-	
(-) Closing Stock - FG $\left(\frac{26,00,000}{40,000} \times 5000\right)$	(3,05,000)	
COG	22,75,000	
(+) S&D		
(V)	1,05,000	(3 x 35,000)
(F)	60,000	(1 x 60.000)
COS	24 40 000	

INTER C.A. – FINANCIAL MANAGEMENT

(Sol-7)

Statement of Working Capital

Particulars	Amount (Rs.)
Current Assets :	
Stock	
R/M (6,00,000 x 2/12)	50,000
FG (166,80,000 x 1/12)	1,40,000
Cash balance	80,000
Debtors (1905000 x 2/12)	3,17,500
Prepaid Sales Exp. (75000 x 3/12)	<u>18,750</u>
(A)	6,06,250
Current Liabilities :	
Creditors (6,00,000 x 2/12)	1,00,000
0/S Wages (4,80,000 x 1/12)	40,000
O/S Manufacturing Exps. (6,00,000 x 1/12)	50,000
0/S Admin. Exp. (1,50,000 x 1/12)	<u>12,500</u>
(B)	(2,02,500)
Working Capital	4,03,750
(+) SM @ 10%	<u>40,375</u>
W.C.R.	<u>4,44,125</u>
W.N.1 : Cost Structure	
Material	6,00,000
(+ Wages	4,80,000
(+) Manufacturing Exps.	<u>6,00,000</u>
СОР	16,80,000
(+) Admin. Exps.	1,50,000
(+) Sales Exps.	<u>75,000</u>
COS	<u>19,05,000</u>

Homework

RECEIVABLE MANAGEMENT

(Sol-1)

Statement showing Evaluation of Credit Policies

		Particulars	Present Policy (1 month)	Proposed Policy (2 months)
A.	Expe	cted Profit:		
	(a)	Net Credit Sales (Sales units × Rs. 40)	8,40,000	9,07,200
	(b)	Less: Total Cost:		
		Variable (Sales units × Rs. 25)	5,25,000	5,67,000
		Fixed Cost	2,10,000	2,10,000
			7,35,000	7,77,000
	(c)	Expected Profit [(a)-(b)]	1,05,000	1,30,200
B.	Oppo	rtunity Cost of Investment in Receivables	15,313	32,375
C.	Net B	enefits [A-B]	89,687	97,825

Recommendation: Proposed Policy should be implemented since the net benefit under this policy are higher than those under present policy.

Working Note: Calculation of Opportunity Cost

Opportunity Cost = Total Cost x $\frac{\text{Collection Period}}{12}$ x Rate of Return Present Policy = Rs.7,35,000 x $\frac{1}{2}$ x $\frac{25}{100}$ = Rs.15,313 Present Policy = Rs.7,77,000 x $\frac{2}{12}$ x $\frac{25}{100}$ = Rs.32,375 (Sol-2) Interest Rate = 24% p.a. Interest Rate for 30 Days $= 24 \times 30/365 = 1.9726\%$ Hence, value of Re today will become 1.019726 after 30 days : PV today = $\frac{1}{1.019726}$ = 0.780656 Hence discount rate to be offered today for RS 1 to be received after 30 days = 1 - 0.980656 = 0.019344 @ 1.93%(Sol-3) Working Notes:-Average level of Receivables $= 12,00,000 \times 90/360$ $= 3.00.000 \times 2/100$ **Factoring Commission**

	0,00,000 11 =/ 200	0,000
Factoring Reserve	= 3,00,000 x 10/100	30,000

3,00,000

6.000

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Amount Available for Advance

= Rs. 3,00,000-(6,000+30,000)

2,64,000

Factor will deduct his interest @ 16% :-

Interest = $\frac{\text{Rs.2,64,000x16x90}}{360x100}$ = Rs.10,560

Advance to be paid = Rs. 2,64,000 - Rs. 10,560 = Rs. 2,53,440

	Particulars	Rs.
A.	Annual Cost of Factoring to the Firm:	
	Factoring Commission (Rs. 6,000 x 360/90)	24,000
	Interest Charges (Rs. 10,560 x 360/90)	42,240
	Total	66,240
B.	Firm's Savings on taking Factoring Service:	Rs.
	Cost of Administration Saved	50,000
	Cost of Bad Debts (Rs. 12,00,000 × 1.5/100) avoided	18,000
	Total	68,000
C.	Net Benefit to the Firm (Rs. 68,000 – Rs. 66,240)	1,760

Statement Showing Evaluation of Factoring Proposal

(Sol-4)

Statement showing evaluation of Credit Po

Particulars	Present 30 days	A 45 days	B 60 days	C 75 days	E 90 days
Exp. Profit					
Sales	5000000	56000000	6000000	6200000	6300000
(-) V.C.@ 80%	(400000)	(4480000)	(4800000)	(4960000)	(5040000)
(-) F.C.	(600000)	(600000)	(600000)	(600000)	(600000)
	400000	520000	600000	640000	660000
(-) COID (W.N.1)	(76667)	(127000)	(180000)	(231667)	(282000)
N.B.	323333	393000	420000	408333	378000

COID

Present : 10 = 383333

C = 76667 (383333 x 20%)

- A: ID = 635000 (5080000 x 45/350)
- C = 127000 (688000 x 20%)
- B: ID = 900000 (5000000 x 60/365)
- C = 180000 (900000 x 20%)
- $C: ID = 1158333 (5560000 \times 75/360)$

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C = 231667 (1158333 x 20%)

D: ID = 1410000 (5640000 x 20/360)

 $C = 282000 (1410000 \times 20\%)$

It is advisable to consider Policy B

(Sol-5)

A. Statement showing the Evaluation of Debtors Policies (Total Approach)

	Particulars	Present Policy 30 days	Proposed Policy A 40 days	Proposed Policy B 50 days	Proposed Policy C 60 days	Proposed Policy D 75 days
		Rs.	Rs.	Rs.	Rs.	Rs.
А.	Expected Profit:					
(a)	Credit Sales	6,00,000	6,30,000	6,48,000	6,75,000	6,90,000
(b)	Total Cost other than Bad Debts					
(i)	Variable Costs [Sales x Rs. 2/Rs. 3]	4,00,000	4,20,000	4,32,000	4,50,000	4,60,000
(ii)	Fixed Costs	50,000	50,000	50,000	50,000	50,000
	4,50,000	4,70,000	4,82,000	5,00,000	5,10,000	
(c)	Bad Debts	6,000	9,450	12,960	20,250	27,600
(d)	Expected Profit [(a) – (b) – (c)]	1,44,000	1,50,550	1,53,040	1,54,750	1,52,400
В.	Opportunity Cost of Investments in Receivables	7,500	10,444	13,389	16,667	21,250
C.	Net Benefits (A – B)	1,36,500	1,40,106	1,39,651	1,38,083	1,31,150

Recommendation: The Proposed Policy A (i.e. increase in collection period by 10 days or total 40 days) should be adopted since the net benefits under this policy are higher as compared to other policies.

Working Notes:

(i) Calculation of Fixed Cost

= [Average Cost per unit – Variable Cost per unit] x No. of Units sold

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= [Rs. 2.25 - Rs. 2.00] x (Rs. 6,00,000/3)

= Rs. 0.25 x 2,00,000 = Rs. 50,000

(ii) Calculation of Opportunity Cost of Average Investments

Opportunity Cost = Total Cost x $\frac{\text{Collection period}}{360} \times \frac{\text{Rate of Return}}{100}$ Present Policy = 4,50,000 x $\frac{30}{360} \times \frac{20}{100}$ =7,500
Policy A = 4,70,000 x $\frac{40}{360} \times \frac{20}{100}$ =10,444
Policy B = 4,82,000 x $\frac{50}{360} \times \frac{20}{100}$ =13,389
Policy C = 5,00,000 x $\frac{60}{360} \times \frac{20}{100}$ =16,667
Policy D = 5,10,000 x $\frac{75}{360} \times \frac{20}{100}$ =21,250

B. Another method of solving the problem is Incremental Approach. Here we assume that sales are all credit sales.

	Particulars	Present Policy 30	Proposed Policy A 40	Proposed Policy B 50	Proposed Policy C 60	Proposed Policy D 75
	i ui ticului 5	days	days	days	days	days
А.	Incremental Expected Profit	<u>N3</u> .				<u>N3.</u>
(a)	Incremental Credit Sales		30,000	48,000	75,000	90,000
(b)	Incremental Costs					
(i)	Variable Costs	4,00,000	20,000	32,000	50,000	60,000
(ii)	Fixed Costs	50,000	-	-	-	-
(c)	Incremental Bad Debt Losses	6,000	3,450	6,960	14,250	21,600
(d)	Incremental Expected Profit (a – b –c)]		6,550	9,040	10,750	8,400
B.	Required Return on Incremental Investments:					
(a)	Cost of Credit Sales	4,50,000	4,70,000	4,82,000	5,00,000	5,10,000
(b)	Collection period	30	40	50	60	75
(c)	Investment in Receivable (a x b/360)	37,500	52,222	66,944	83,333	1,06,250
(d)	Incremental Investment in Receivables	-	14,722	29,444	45,833	68,750

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(e)	Required Rate of Return (in %)		20	20	20	20
(f)	Required Return on Incremental Investments (d x e)	-	2,944	5,889	9,167	13,750
С.	Net Benefits (A – B)	-	3,606	3,151	1,583	5,350

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

C. Another method of solving the problem is by computing the Expected Rate of Return.

Expected Rate of Return	= Incremental Expected Profit x100				
Expected rate of retain	Incremental Investment in Receivables				
For Policy A	$= \frac{\text{Rs.6,550}}{\text{Rs.14,722}} \times 100 = 44.49\%$				
For Policy B	$= \frac{\text{Rs.9,040}}{\text{Rs.29,444}} \times 100 = 30.0\%$				
For Policy C	$= \frac{\text{Rs.10,750}}{\text{Rs.45,833}} \times 100 = 23.45\%$				
For Policy D	$=\frac{\text{Rs.8,400}}{\text{Rs.68,750}} \times 100 = 12.22\%$				

Recommendation: The Proposed Policy A should be adopted since the Expected Rate of Return (44.49%) is more than the Required Rate of Return (20%) and is highest among the given policies compared.

(Sol-6)

Statement showing evaluation of credit policy

(in Lakh Rs.)

Particulars	Present (20 d)	P-I (30 d)	P-II (40 d)	P-III (50 d)	P-IV (60 d)
EP					
Saus	60	65	70	74	75
(-) <u>V.C.@70%</u>	(42)	(45.5)	(49)	(51.8)	(52.5
(-) F.C.	(8)	(8)	(3)	(8)	(8)
	10	11.5	15	14.2	14.5
(-) COID	(0.600)	(1.115)	(1.583)	(2.076)	(2.520)
N.B.	9.306	10.385	11417	12.124	18.979

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COID : Present		$: 10: 42 + 8 = 50 \ge 20/360 = 2.778$			
	(=2.77	/8 x 25% = 0.694)			
P-I	:	ID = 45 : 5 + 8 = 53.5% 30.360 = 4.458			
		(4.458 x 25% = 1.115)			
P-II	:	ID = 49 + 8 = 57 x 40/360 = 6.33			
		(= 6.33 x 25% = 1.583			
P-III	:	ID = 541.8 + 8 = 59.6 x 50/360 = 8.306			
		(= 8.306 x 25% = 2.076)			
P-IV	:	ID = 52.5 + 8 = 60.5 x 60/360 = 10.083			
		(= 10.083 x 25% = 2.521)			

Company should consider policy III, (50 d credit) as it will give higher N.B.

(Sol-7)

Statement showing evaluation of Credit Policy

(in lakh Rs.)

Particulars	Present	P-I	P-2
EP			
Sales	87.5	105	118
(-) VC @70%	(61.25)	(735)	(82.6)
(-) Bad Debts	(2.63)	(5.25)	(7.88)
	23.62	26.25	27.52
(-) COID (W.N.1)	(2.625)	(4.2)	(5.90)
N.B.	20.995	22.05	21.62

COID

Present :	ID = 8.75
	C = 2.625 (8.75 x 30%)
P-1 : ID	= 14 (73.5 x 1/525)
С	= 4.2 (14 x 30%)
P-II : ID	= 19.67 (82.6 x
С	= 5.90 (19.67 x 50%)

Homework

(Sol-1)

CASH BUDGET

Cleared Funds Forecast

	7 Jan 14	8 Jan 14	9 Jan 14	10 Jan 14	11 Jan 14
	(Monday)	(Tuesday)	(Wednesday)	(Thursday)	(Friday)
	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts					
W Ltd	1,30,000	0	0	0	0
X Ltd	0	0	0	1,80,000	0
(a)	1,30,000	0	0	1,80,000	0
Payments					7
A Ltd	45,000	0	0	0	0
B Ltd	0	0	75,000	0	0
C Ltd	0	0	95,000	0	0
Wages	0	0	0	0	12,000
Salaries	56,000	0	0	0	0
Petty Cash	200	0	0	0	0
Stationery	0	0	300	0	0
(b)	1,01,200	0	1,70,300	0	12,000
Cleared excess Receipts over payments (a) – (b)	28,800	0	(170,300)	80,000	(12,000)
Cleared balance b/f	200,000	228,800	228,800	58,500	238,500
Cleared balance c/f (c)	2,28,800	2,28,800	58,500	2,38,500	2,26,500
Uncleared funds float					
Receipts	180,000	180,000	180,000	0	0
Payments	(170,000)	(170,300)	0	(6,500)	(6,500)
(d)	10,000	9,700	180,000	(6,500)	(6,500)
Total book balance c/f (c) + (d)	2,38,800	2,38,500	2,38,500	2,32,000	2,20,000

INTER C.A. – FINANCIAL MANAGEMENT

(Sol-2)

Workings:

Collection from debtors:

	February	March	April	May	June	July	August	September
Total sales	1,20,000	1,40,000	80,000	60,000	80,000	1,00,000	80,000	60,000
Credit sales (80% of total sales)	96,000	1,12,000	64,000	48,000	64,000	80,000	64,000	48,000
Collections: One month		72,000	84,000	48,000	36,000	48,000	60,000	48,000
Two months			24,000	28,000	16,000	12,000	16,000	20,000
Total collections			1,08,000	76,000	52,000	60,000	76,000	68,000

(Amount in Rs.)

Monthly Cash Budget for Six months, April to September, 2014

(Amount in Rs.)

Receipts:	April	May	June	July	August	September
Opening balance	20,000	20,000	20,000	20,000	20,000	20,000
Cash sales	16,000	12,000	16,000	20,000	16,000	12,000
Collection from debtors	1,08,000	76,000	52,000	60,000	76,000	68,000
Total cash available (A)	1,44,000	1,08,000	88,000	1,00,000	1,12,000	1,00,000
Payments:						
Purchases	48,000	64,000	80,000	64,000	48,000	80,000
Wages & salaries	9,000	8,000	10,000	10,000	9,000	9,000
Interest on debentures	3,000	_		3,000		
Tax payment				5,000		
Total payments (B)	60,000	72,000	90,000	82,000	57,000	89,000
Minimum cash balance desired	20,000	20,000	20,000	20,000	20,000	20,000
Total cash needed (C)	80,000	92,000	1,10,000	1,02,000	77,000	1,09,000
Surplus - deficit (A-C)	64,000	16,000	(22,000)	(2,000)	35,000	(9,000)
Investment/financing						
Temporary Investments	(64,000)	(16,000)			(35,000)	
Liquidation of temporary investments or temporary borrowings	_	_	22,000	2,000	_	9,000
Total effect of investment/financing (D)	(64,000)	(16,000)	22,000	2,000	(35,000)	9,000
Closing cash balance (A+D- B)	20,000	20,000	20,000	20,000	20,000	20,000