

IPCC – MAY 2018

PAPER 4: COST ACCOUNTING AND FINANCIAL MANAGEMENT

Test Code: OTS 3 Branch (MULTIPLE) Date : 9.4

(100 Marks)

Note: Question No.1 is compulsory. Candidates are required to answer any five questions from the remaining six questions.

Question	า 1								
a.	learner is been been been been been been been bee			20.: . / T /00. T /50)					
	Increase in hourly ra	ate of wages under H	owan Plan is t	30 i.e. (₹180 – ₹ 150)					
	Time Saved Time Allowed Time Allowed								
	Or. Time Saved 50 hours ×	₹150 = ₹30							
	Or, Time saved = $\frac{1}{1}$	500 150 = 10 hours							
	Therefore, Time Taken is 40 hours i.e. (50 hours – 10 hours)								
	Therefore, Time Taken is 40 hours i.e. (50 hours – 10 hours) Effective Hourly Rate under Halsey System: Time saved = 10 hours								
	Effective Hourly Rate under Halsey System: Time saved = 10 hours Bonus @ 50% = 10 hours × 50% × ₹ 150 = ₹ 750 Total Wages = (₹150 × 40 hours + ₹ 750) = ₹ 6 750								
	Therefore, Time Taken is 40 hours i.e. (50 hours – 10 hours) Effective Hourly Rate under Halsey System: Time saved = 10 hours Bonus @ 50% = 10 hours × 50% × ₹ 150 = ₹ 750 Total Wages = (₹150 × 40 hours + ₹ 750) = ₹ 6,750 Effective Hourly Rate = ₹ 6,750 ÷ 40 hours = ₹ 168.75 Working Note:								
	Total Wages	=₹6,750							
	Effective Hourly Rate	e = ₹ 6,750 ÷ 40 hour	s	= ₹ 168.75					
	Working Note:								
	Effective housing rate	(Time Taken×Rate	eperhour) + Time Time /	Taken Allowed × Time Saved × Ra	ate per hour				
	Ellective hourly rate	-	Time 1	laken 🛛					
	Or, $\frac{1}{100} \frac{1}{100} = ₹ 30$ Or, Time saved $= \frac{1,500}{150} = 10$ hours Therefore, Time Taken is 40 hours i.e. (50 hours – 10 hours) Effective Hourly Rate under Halsey System: Time saved $= 10$ hours Bonus @ 50% $= 10$ hours × 50% × ₹ 150 $= ₹ 750$ Total Wages $= (₹ 150 \times 40$ hours + ₹ 750) $= ₹ 6,750$ Effective Hourly Rate $= ₹ 6,750 \div 40$ hours $= ₹ 168 75$ Working Note: Effective hourly rate $= \frac{(\text{Time Taken × Rate per hour}) + \frac{\text{Time Taken}}{\text{Time Allowed}} \times \text{Time Saved × Rate per hour}}{\text{Time Taken}}$ Or, ₹ 180 $= \frac{\text{Time Taken × Rate per hour}}{\text{Time Taken}} + \frac{\frac{\text{Time Taken}}{\text{Time Allowed}} \times \text{Time Saved × Rate per hour}}{\text{Time Taken}}$								
	Or, ₹180 =	Time Taken	Ti	me Taken					
	Or, ₹ 180 - Time Ta	ken×Rateperhour Time Taken = T	Time Taken Time Allowed	eSaved×Rate per hour×	1 Time Taken				
	Or, ₹180 – ₹150	= Time Saved Time Allowed ×₹ 15	0						

b.

(1 to 4 - 1 mark for each, 5,6 - $\frac{1}{2}$ marks for each)

	In the Books of	Armaan Ltd							
	Journal Entries under Integrated system of accounting								
Part	iculars	Amount in Rs.	Amount in Rs.						
(i)	Work-in-Progress Ledger Control A/	Dr	1,62,500						
	Factory Overhead Control A/c	Dr	57,500						
	To Stores Ledger Control A/c			2,20,000					
	(Being issue of Direct and Indirect materials)								
(ii)	Work-in Progress Ledger Control A/c	Dr	2,76,250						
	Factory Overhead control A/c	Dr	48,750						
	To Wages Control A/c			3,25,000					
	(Being allocation of Direct and Indirect wages)								
(iii)	Factory Overhead Control A/c	Dr	2,50,000						
	To Costing Profit & Loss A/c			2,50,000					
	(Being transfer of over absorption of Factory over	erhead)							
	Costing Drofit & Loss A/s	Dr	1 75 000						
	Costing Profit & Loss A/C	Dr	1,75,000	1 75 000					
	(Deing transfor of under observing of Administration			1,75,000					
over	head)								
(iv)	Sundry Creditors A/c	Dr	1,50,000						
	To Cash/ Bank A/c			1,50,000					
	(Being payment made to creditors)								
(v)	Cash/ Bank A/c	Dr	4,00,000						
. ,	To Sundry Debtors A/c			4,00,000					
	(Being payment received from debtors)								

с.

Calculation of Working Capital Requirement			
(A) Current Assets			
(i) Stock of material for 4 weeks (192,000 x 40 x 4/52)		5,90,770	
(ii) Work in progress for ½ month or 2 weeks			-
Material (192000 x 40 x 2/52) 0.50	1,47,692		-
Labour (192000 x 15 x 2/52) 0.50	55,384		-
Overhead (192,000 x 30 x 2/52) 0.50	1,10,770	3,13,846	
(iii) Finished stock (192,000 x 85 x 4/52)		12,55,384	4
(iv) Debtors for 2 months (192,000 x 85 x 8/52)		25,10,770	
Cash in hand or at bank		1,00,000	3 marks
Investment in Current Assets		47,70,770	
(B) Current Liabilities			
(i) Creditors for one month (192,000 x 40 x 4/52)		5,90,770	-
			2
Overheads (192,000 x 30 x 4/52)	4,43,076		2 marks
Labour (192,000 x 15 x 3/104)	83,076	5,26,152	
Current Liabilities		11,16,922	
Net working capital (A – B)		36,53,848	
]

d.

The net profit is calculated as follows:	
Sales Revenue	45,00,000
Less: Direct Cost	30.00.000
	30,00,000
Gross Profit	15,00,000
Less : operating cost	4,80,000
EBIT	10,20,000
Less: Interest at 9%	1,35,000
ЕВТ	8,85,000
Less : taxes at 40%	3,54,000
РАТ	5,31,000
i) Net profit Margin = EBIT (1-t) *100 /Sales	
=102000(1-0.40)*100/4500000	0.136
ii) Return on assets = EBIT (1-t) *100 /Total Assets	0.122
=102000(1-0.40)*100/5000000	
ii) Asset Turnover = Sales/ Assets	
=4500000/5000000	0.900
iv) Return on Equity	
ROE= PAT/Equity	
=531000/3500000	0.152

a. (2 marks for each)

(i) Contribution = ` 37.50 - ` 17.50 = ` 20 per unit.
Break even Sales Quantity = <u>Fixed cost</u>
Contribution margin per unit
(35,00,000 ÷ 20) units
=1,75,000 units
Cash Break even Sales Qty= <u>Cash Fixed Cost</u>
Contribution margin per unit
(20,00,000 ÷ 20) units
=1, 00,000 units.
(ii) P/V ratio = <u>Contribution/ unit</u> x 100
Selling Pr ice / unit
(20/37.5x100)
`= 53.33 %
(iii) No. of units that must be sold to earn an Income (EBIT) of 2, 50,000 Fixed cost + Desired EBIT level
Contribution margin per unit
= 35,00,000 +2,50,000
20
= 1,87,500 units
(iv) After Tax Income (PAT) = `2, 50,000
Tax rate = 40%
Desired level of Profit before tax = (2,50,000 /60) x 100 = 4,16,667
Estimate Sales Level = <u>FixedCost + DesiredPr ofit</u>
P / V ratio
OR
Estimated Sales Level = Fixed Cost + Desired Profit x S.P. p.u.
Contribution per unit
(3500000+416667)/53.33% = 73,43,750

b.

(1) Statement of Operating Profit:						
					Rs. in lacs	
Particulars	Note No.	1	2	3	4	

Sales	A	3,220	3,220	4,180	4,180	
Material Consumption		300	400	850	850	
Wages		600	650	850	1,000	
Other expenses		400	450	540	700	
Factory overheads (insurance)		300	300	300	300	
Loss of rent		100	100	100	100	
Interest		320	240	160	80	
Depreciation		500	380	280	210	
Total Cost	В	2.520	2.520	3.080	3.240	
Profit (A)-(B)	с	700	700	1.100	940	
Tax @50%		(350)	(350)	(550)	(470)	
РАТ	D	350	350	550	470	
(2) Statement of Incremental Casflows:						
						Rs. in lacs
Particulars	Note No.	0	1	2	3	4
Material Stocks		(200)	(350)	-	-	550
Compensation for contract		(300)	-	-	_	-
Contract payment saved		-	500	500	500	500
Tax on contract payment		_	(250)	(250)	(250)	(250)
Incremental profit		_	700	700	1,100	940
Depreciation added back			500	380	280	210
Tax on profits			(350)	(350)	(550)	(470)
Loan repayment		_	(500)	(500)	(500)	(500)
	1	-	(300)	(300)	(300)	(300)

Total incremental cash flows						
		(500)	250	480	580	1,030
PV Factor						
		1.000	0.870	0.756	0.658	0.572
NPV of cashflows	В	(500)	218	363	382	589
NPV	С	1,051				
Advice: Since the net present value of						
cash flows is `1,051 lacs which is positive						
the management should install the						
machine for processing the waste.						
Notes:						
1. Material stock increases are taken in						
cash flows.						
2. Idle time wages have also been						
considered						
3. Apportioned factory overheads are not						
relevant only insurance charges of this						
project are relevant.						
4. Interest calculated at 16% based on 4						
equal instalments of loan repayment.						
5. Sale of machinery- Net income after						
deducting removal expenses taken. Tax						
on Capital gains ignored.						
6. Saving in contract payment and income						
tax thereon considered in the cash flows.						

a.

(a) Flexible Budget before marketing				
efforts: (4 marks)	Mixer(`)		Juicer (`)	
	6,000 units		9,000 units	
	Per unit	Total	Per unit	Total
Sales	120	7,20,000	78	7,02,000
Raw material cost	60	3,60,000	42	3,78,000
Direct labour cost per unit	30	1,80,000	18	1,62,000
Variable overhead per unit	12	72,000	6	54,000
Fixed overhead per unit	8	48,000	4	36,000
Total cost	110	6,60,000	70	6,30,000

1	1	1	1
10	60,000	8	72,000
Mixer (`)		juicer (`)	
7,500 units		9,500 units	
Per unit	Total	Per unit	Total
120	9,00,000	78	7,41,000
60	4,50,000	42	3,99,000
30	2,25,000	18	1,71,000
13	99,000	7	62,700
7	50,400	4	37,800
110	8,24,400	71	6,70,500
10	75.600	7	70.500
	10 Mixer (`) 7,500 units Per unit 120 60 30 13 13 7 110	10 60,000 Mixer (`) - 7,500 units - Per unit Total 120 9,00,000 60 4,50,000 60 2,25,000 13 99,000 7 50,400 110 8,24,400	10 60,000 8 Mixer (`) juicer (`) 7,500 units 9,500 units Per unit Total Per unit 120 9,00,000 78 60 4,50,000 42 30 2,25,000 18 13 99,000 7 7 50,400 4 110 8,24,400 71

b.

(A) (i) Equipment's initial cost = `60,00,000 +								
(ii) Appual straight line depreciation – `								
60.00.000/5 =	`12 00	000						
(iii) Net cash fl	ows car	be calculate	d as					
follows:	0 110 00.							
= Before tax Cl		Tc) + Tc × De	preciation					
	- ((Rs. In '000)		-			
			CFs		-			
	Note							
Year	Note No.	0	1	2	3	4	5	
Initial Cost	1							
		(6,800.00)						
Before Tax	2							
CFs		-	2,400.00	2,750.00	2,100.00	1,800.00	1,600.00	
Tax @35%	3							
		-	840.00	962.50	735.00	630.00	560.00	
After Tax CFs	4							
		(6,800.00)	1,560.00	1,787.50	1,365.00	1,170.00	1,040.00	
Depreciation	5							
tax shield								
(Depreciation								
x Tc)		-	420.00	420.00	420.00	420.00	420.00	
Working	6							
Capital								
released		-	-	-	-	-	800.00	

8 | P a g e

Net Cash	7							1
Flow (4+5+6)		(6,800.00)	1,980.00	2,207.50	1,785.00	1,590.00	2,260.00	1
PVF at 12%	8							
		1.0000	0.8929	0.7972	0.7118	0.6355	0.5674	
PV (7 x 8)	9							
		(6,800.00)	1,767.94	1,759.82	1,270.56	1,010.45	1,282.32	1
NPV at 12%	10							1
		291.09						1
PVF at 12%	11							
		1.0000	0.8696	0.7561	0.6575	0.5718	0.4972	1
PV (7 x 11)	12							
		(6,800.00)	1,721.81	1,669.09	1,173.64	909.16	1,123.67	I
NPV at 15%	13							
		(202.63)						

(B) Internal Rate of Return
 IRR = 12% + (291.09/493.72)*3%
 = 13.77%
 (C) Discounted Payback Period

Discounted CFs at K = 12% considered = 1,767.94 + 1,759.82 + 1,270.56 + 1,010.45

+[1,282.32*(9,91.23/1,282.32)]

= 4 years and 9.28 months

Payback Period (NCFs are considered)

= 1,980 + 2,207.50 + 1,785.00 + [1,590.00*(762.50/1,590)]

= 3 years and 6.25 months

Question 4

a.

Statement of Eq	uivalent Pro	oductio	า							
(Average Cost Method) - 2 Marks										
Dentieulene	Total	D	M - 1		DM - 2	Lat	Labour		Overheads	
Particulars	Units	%	Units	%	Units	%	Units	%	Units	
Units										
completely										
processed	17,000	100	17,000	100	17,000	100	17,000	100	17,000	
Normal Loss										
(10% of										
[20,000 units -										
4,000 units])										
(Refer WN)	1,800	-	-	-	-	-	-	-	-	
									-	
Abnormal Gain	-800	100	-800	100	-800	100	-800	100	800	
Closing Stock	4,000	100	4,000	80	3,200	60	2,400	40	1,600	

	22.000	20.200	10 400	10 600	17 900
	22,000	20,200	19,400	18,600	17,800

Statement of Cost – 2 Marks				
		Equivalent	Rate/Equivalent	
Particulars	Cost	Units	Units	
Material 1				
Op bal : 2,000 units	12,350			
Cost of 20,000 units @ Rs. 6/- p.u	1,20,000			
Less : Scrap realised (1,800 units x				
Rs. 4)	-7,200			
	1,25,150	20,200	6.1955	
<u>Material 2</u>				
Op Stock	13,200			
In Process 2	60,000			
	72 200	10.400	2 7722	
Labour	73,200	19,400	3.//32	
On Stock	17 500			
	17,500			
In Process 2	90,000			
	50,000			
	1.07.500	18.600	5.7796	
Overheads				
Op Stock	11,000			
In Process 2	95,000			
	1,06,000	17,800	5.9551	
			21.7034	
Statement of Evaluation - 1 Marks				
Cost of 17,000 finished goods units				
(17,000 x Rs. 21.7034)	3,68,957			

	22,800	4,36,413		22,800	4,36,413
To Abnormal Gain	800	17,363			
To Overhead		95,000			
To Direct Labour		90,000			
To DM - 2		60,000	By Closing Balance	4,000	60,255
To Opening 2	20,000	1,20,000	By Finished goods units	17,000	3,68,957
To Opening WIP	2,000	54,050	By Normal Loss	1,800	7,200
Process 3 A/C - 1 Marks Particulars	Units	Rs.	Particulars	Units	Rs.
	4,46,575				
	60,255				
Overheads (1,600 x Rs. 5.9551)	9,528				
DL (2,400 x Rs. 5.7796)	13,871				
DM - 2 (3,200 x Rs. 3.7732)	12,074				
DM - 1 (4,000 x Rs. 6.1955)	24,782				
Cost of 4,000 Closing WIP					
Cost of 800 abnormal units (800 x Rs. 21.7034)	17,363				

b.
(a) Preparation of Balance Sheet
of a Company
Working Notes:
(i) Cost of Goods Sold = Sales –
Gross Profit (= 25% of Sales)
` 30,00,000 – ` 7,50,000
` 22,50,000
(ii) Closing Stock = Cost of Goods
Sold / Stock Turnover
` 22,50,000/6
` 3,75,000
(iii) Fixed Assets = Cost of Goods

Sold / Fixed Assets Turnover
`22,50,000/1.5
` 15,00,000
(iv) Current Assets : Current Ratio
= 1.5 and Liquid Ratio = 1
Stock = 1.5 – 1 = 0.5
Current Assets = Amount of Stock
x 1.5/0.5
= ` 3,75,000 x 1.5/0.5 = `
11,25,000
(V) Liquid Assets (Debtors and
Cash)
Current Assets - Stock
= 11,25,000 - 3,75,000
=`7,50,000
(vi) Debtors = Sales x Debtors
Collection period /12
= 30,00,000 x 2 /12
= `5,00,000
(VII) Cash = Liquid Assets –
-2750000 - 250000 - 20000 - 200000 - 20000000000
- 7,50,000 - 5,00,000 - 2 50 000
(viii) Net worth = Fixed Assets
/1.2
= 15.00.000/1.2 = 12.50.000
(ix) Reserves and Surplus
Reserves and Share Capital = 0.6
+ 1 = 1.6
Reserves and Surplus = `
12,50,000 x 0.6/1.6
=`4,68,750
(x) Share Capital = Net worth –
Reserves and Surplus
= `12,50,000 - `4,68,750
=`7,81,250
(xi) Current Liabilities = Current
Assets/ Current Ratio
= `11,25,000/1.5 = `7,50,000
(xii) Long-term Debts
Capital Gearing Ratio = Long-
term Debts / Equity
Shareholders' Fund
Long-term Debts = `12,50,000 x
0.5 = `6,25,000

Balance Sheet of a Company			
Liabilities	Amount (Rs.)	Assets	Amount (Rs.)
Equity Share Capital	7,81,250	Fixed Assets	15,00,000
Reserves and Surplus		Current	

	4,68,750	Assets	
Long-term Debts	6,25,000	Stock	3,75,000
Current Liabilities	7,50,000	Debtors	5,00,000
		Cash	2,50,000
	26,25,000		26,25,000
(b) Statement Showing Working Capital Requirement			
A. Current Assets			
Stock	3,75,000		_
Debtors	5,00,000		_
Cash	2,50,000	11,25,000	
B. Current Liabilities		7,50,000	
Working Capital before Provision (A – B)		3,75,000	
Add: Provision for Contingencies			
including Provision i.e. 1/9th of			
Working Capital before Provision : 3,75,000 x 1/9		41,667	
Working Capital Requirement including Provision		4,16,667	

а.			
(a) Statement of Profit under			
Absorption Costing :- (3 marks)			
Particulars	April	May	June
Sales (units)	4,600	4000	5400
Selling price per unit	2,000	2000	2000
Sales value (A)	92,00,000	80,00,000	1,08,00,000
Cost of Goods Sold:			
Opening Stock @ 1290	-	258000	1032000
Production cost @ 1290	61,92,000	59,34,000	70,95,000
Closing Stock @ 1290	(2,58,000)	(10,32,000)	(11,61,000)

13 | Page

Under/ (Over) absorption	1,20,000	1,40,000	50,000
Add: Fixed Selling Overheads	90,000	90,000	90,000
Cost of Sales (B)	61,44,000	53,90,000	71,06,000
Profit (A – B)	30,56,000	26,10,000	36,94,000
Workings:			
1. Calculation of full production cost			
Direct Materials (4 kg. × ` 110)	440		
Direct labour (6 hours × ` 50)	300		
Variable production Overhead (150% of ` 300)	450		
Total Variable cost	1,190		
Fixed production overhead (50,00,000 / 50000)	100		
	1,290		
2. Calculation of Opening and Closing stock			
	April	May	June
Opening Stock	-	200	800
Add: Production	4,800	4600	5500
Less: Sales	4,600	4000	5400
Closing Stock	200	800	900
2 Calculation of Under/Over			
absorption of fixed production			
overhead (1 mark)			
	April	Mav	June
		,	
Actual Overhead	6,00,000	6,00,000	6,00,000
Overhead absorbed	4,80,000	460000	550000
Linder/(Over) absorption	(4800x 100)	(4600x 100)	(5500x100)
	1,20,000	1,40,000	50,000

(b) Statement of Profit under Marginal Costing:- (2 marks)							
	1						
	April	Мау	June				
Sales (units)	4,600	4000	5400				
Selling price per unit	2,000	2000	2000				
Sales value	92,00,000	80,00,000	1,08,00,000				
Less: Variable production cost	54,74,000	47,60,000	64,26,000				
Contribution	37,26,000	32,40,000	43,74,000				
Less: Fixed Production Overheads	6,00,000	6,00,000	6,00,000				
Less: Fixed Selling Overheads	90,000	90,000	90,000				
Profit	30,36,000	25,50,000	36,84,000				
(c) Reconciliation of profit under Abso	ption costing to N	Marginal Costing	g :- (2 marks)				
	April	Мау	June				
Profit under Absorption Costing	30,56,000	26,10,000	36,94,000				
Add: Opening Stock	_	20.000	80.000				
	(0 x100)	(100*200)	(100*800)				
Less: Closing Stock	20,000	80,000	90,000				
	(200x 100)	(800 X 100)	(900 X100)				
<u> </u>							
Profit under Marginal Costing	30,36,000	25,50,000	36,84,000				

В

Computation of the weighted average cost of capital			
Source of Finance	Proportion	After tax cost (%) (1-tax rate i.e. 50%)	Weighted average cost of capital (%)
(a)	(b)	(c)	(d)=(b)x(c)
Equity share	0.5	15.09	7.54

10% Preference share	0.2	10	2
12% Debentures	0.3	6	1.8
Weighted average cost of capital			11.34
Computation of Revised weighted average cost of capital			
Source of finance	Proportion	After tax cost (%) (1-tax rate i.e. 50%)	Weighted average cost of capital (%)
Equity shares	0.333	17.42	5.80
10% Preference shares	0.133	10.00	1.33
12% Debentures	0.2	6.00	1.20
14% Loan	0.333	7.00	2.33
Revised weighted average cost of capital			10.66
Working Notes:			
 (1) Cost of equity shares (Ke) Ke = (Dividend per share/Market Pri) + i =(10/110)+0.06 			
=15.09%			
(2) Revised cost of Equity Shares (Ke)			
Revised Ke = (12/105)+0.06 = 17.43%			

a. (2 marks for each point)

(i)	Standard cost for Actual output:	
	Material X = 1,500 units × 2,000 kg. × `1	= 30,00,000
	Material Y = 1,500 units × 800 kg. ×`1.50	<u>= 18,00,000</u> ` 48,00,000
(ii)	Material Cost Variance:	
	= Standard Cost for actual output – Actual Cost	
	$= (SQ \times SP) - (AQ \times AP)$	
	Material X = {30,00,000 - (31,00,000 kg. ×` 1.10)}	
	= 30,00,000 – 34,10,000 Material Y = {18,00,000 – (12,50,000 kg. × ` 1.60)}	= 4,10,000 (A)
	= 18,00,000 - 20,00,000	= 2,00,000 (A) 6,10,000 (A)
(iii)	Material Price Variance:	
	= AQ (SP – AP)	
	Material X = 31,00,000 kg. (`1.00 – `1.10)	= 3,10,000 (A)
	Material Y = 12,50,000 kg. (` 1.50 – ` 1.60)	= 1,25,000 (A) 4,35,000 (A)
(iv)	Material Usage Variance:	
	= SP (SQ $-$ AQ)	
	Material X = `1.00 {(1,500 × 2,000) – 31,00,000}	
	= 30,00,000 - 31,00,000	= 1,00,000 (A)
	Material Y = `1.50 {(1,500 × 800) – 12,50,000}	
	= `1.50 (12,00,000 – 12,50,000)	= 75,000 (A) = 1,75,000 (A)

b)

Role of Finance Manager in the Changing Scenario of Financial Management in India: Inthe modern enterprise, the finance manager occupies a key position and his role is becomingmore and more pervasive and significant in solving the finance problems. The traditional roleof the finance manager was confined just to raising of funds from a number of sources, but therecent development in the socio-economic and political scenario throughout the world hasplaced him in a central position in the business organisation. He is now responsible forshaping the fortunes of the enterprise, and is involved in the most vital decision of allocation ofcapital like mergers, acquisitions, etc. He is working in a challenging environment whichchanges continuously.Emergence of financial service sector and development of internet in the field of information

technology has also brought new challenges before the Indian finance managers. Development of new financial tools, techniques, instruments and products and emphasis on public sector <u>undertaking to be self-supporting and their dependence on capital market for fund requirements</u> have all changed the role of a finance manager. His role, especially, assumes significance in the present day context of liberalization, deregulation and globalization

c)

Maturity value of the investment may be found from FVn = P (1+i) raised to n P=12000, n= 5*12=60, i=12/12=1% FVn= 12000/ (1+1%) raised to 60= 12000*1.181669670= Rs 21,800

The present value, P of the amount FVn due at the end of n interest periods at the rate of i% interest per period is given by P = FVn (1 + i) raised to -nFV= 21800, i=8/4=2%, n=5*4=20 P=21800(1+2%) raised to -20 P=21800*0.67297133=14671.02

Question 7 Attempt any **four** of the following Attempt any **four** of the following

a. (1 mark each)

Industry	Method of Costing
(a) Oil Refinery	 Process costing
(b) Bicycle manufacturing	- Multiple costing
(c) Interior decoration	– Job costing
(d) Airlines	 Operating costing

b. (4 marks)

Explicit costs: These costs are also known as out of pocket costs. It refers to those costs which involves immediate payment of cash. Salaries, wages, postage and telegram, interest on loan etc. are some examples of explicit costs because they involve immediate cash payment. These payments are recorded in the books of account and can be easily measured.

Main points of difference: The following are the main points of difference between Explicit and Implicit costs.

- Implicit costs do not involve any immediate cash payment. As such they are also known as imputed costs or economic costs.
- (ii) Implicit costs are not recorded in the books of account but yet, they are important for certain types of managerial decisions such as equipment replacement and relative profitability of two alternative courses of action.
- a.
- a. The financing of current assets involves a trade off between risk and return. A firm can choose from short or long term sources of finance. Short term financing is less expensive than long term financing but at the same time, short term financing involves greater risk than long term financing.(1 mark)
- b. Depending on the mix of short term and long term financing, the approach followed by a company may be referred as matching approach, conservative approach and aggressive approach. (1 mark)
- c. In matching approach, long-term finance is used to finance fixed assets and permanent current assets and short term financing to finance temporary or variable current assets. Under the conservative plan, the firm finances its permanent assets and also a part of temporary current assets with long term financing and hence less risk of facing the problem of shortage of funds. (1 mark)
- d. An aggressive policy is said to be followed by the firm when it uses more short term financing than warranted by the matching plan and finances a part of its permanent current assets with short term financing. **(1 mark)**

b.

i) Time Value of Money: (1/2 mark for each point)

It means money has time value. A rupee today is more valuable than a rupee after a year. Similarly, a rupee received in future is less valuable than it is today. Time value of money can be of two types, present value of money and future value of money. Concept of discounting is applicable to present value of money and compounding is applicable to future value of money. In a nutshell, time value of money represents monetary value arising out of difference of time.

ii) ABC Analysis: It is a system of selective inventory control whereby the measure of control over an item of inventory varies with its usage value. It exercises discriminatory control over different items of stores grouped on the basis of the investment involved. Usually the items of material are grouped into three categories viz; A, B and C according to their use value during a period. In other words, the high use value items are controlled more closely than the items of low use value. (1 mark)

'A' Category of items consists of only a small percentage i.e., about 10 % of the total items of material handled by the stores but require heavy investment i.e., about 70% of inventory value, because of their high prices and heavy requirement.

'B' Category of items comprises of about 20% of the total items of material handled by stores. The percentage of investment required is about 20% of the total investment in inventories.

'C category of items does not require much investment. It may be about 10% of total inventory value but they are nearly 70% of the total items handled by stores

(1 mark)
