# INTERMEDIATE EXAMINATION Syllabus 2016

Paper 10: COST & MANAGEMENT ACCOUNTING AND FINANCIAL MANAGEMENT (CMFM)

Time Allowed: 3 Hours Full Marks: 100

There are Sections A, B, C and D to be answered subject to instructions given against each.

			Section A		20 X 1 =
			You are required to answer all the questions. Each question carries 1 mark.		20 Marks
			tructions: Each question is followed by 4 Answer choices and only one is correct.		
	١	ou are	required to select the choice which according to you represents the correct answer.		
1.	a.		gement Accounting relates to		
		(i)	collection of data from different sources		
		(ii)	modification of data to meet specific needs		
		(iii)	•		
		(iv)	All the above	Α	
	b.	Rudø	etary Control helps as a basis for		
	<b>.</b>	(i)	Statutory Audit		
		(ii)	Internal Audit	Α	
		(iii)	Both (i) and (ii)		
		(iv)	None of the above		
		(10)	Notice of the above		
	c.	Whic	h of the following is not an example of Functional Budget?		
		(i)	Production budget		
		(ii)	Materials budget		
		(iii)	Cost of production budget		
		(iv)	None of the above.	Α	
	d.		ge Margin of Safety indicates		
		(i)	over-capitalization		
		(ii)	soundness of business		
		(iii)	over-production		
		(iv)	None of the above	Α	
	e.	Whic	h one of the following is another name for Learning Curve?		
		(i)	Exponential curve		
		(ii)	Growth curve		
		(iii)	Production curve		
		(iv)	Experience curve	Α	

f.	In a f	actory, the standard rate per hour is Rs. 4, standard time per unit of output is 20 hours,	units	
	produ	uced is 500, actual hours worked is 12,000 hours. What will be the Labour Efficiency Varian	nce?	
	(i)	Rs.6,000 (Favourable)		
	(ii)	Rs.8,000 (Adverse)	Α	
	(iii)	Rs.9,600 (Favourable)		
	(iv)	Rs.8,000 (Favourable)		
g.	What work	is the name of the variance which is calculated as a difference between hours paid and ed?	hours	
	(i)	Labour Rate Variance	-	
	(ii)	Labour Efficiency Variance		
	(iii)	Idle Time Variance	Α	
	(iv)	Net Efficiency Variance		
	-1	W		
h.		elling price is Rs.20 per unit, variable cost Rs.12 per unit, and fixed cost Rs.16,000, the	break-	
		point in units will be		
	(i)	800 units	•	
	(ii)	2000 units	Α	
	(iii)	3000 units		
	(iv)	850 units		
:	All lie	tod companies are required to propare which of the following?		
i.		ted companies are required to prepare which of the following?  Fund Flow Statement		
	(i)	Cash Flow Statement	Λ	
	(ii)		Α	
	(iii) (iv)	Both (i) and (ii)  None of the above		
	(IV)	Notice of the above		
j.	ABC A	Analysis is basically used in .		
	(i)	Inventory Management	Α	
	(ii)	Receivable Management		
	(iii)	Payable Management		
	(iv)	Cash Management		
		-		
k.	Whic	h of the following is not a source of funds?		
	(i)	Issue of Shares		
	(ii)	Issue of Debentures		
	(iii)	Decrease in working capital		
	(iv)	Increase in Working Capital	Α	
I.	At inc	difference level of EBIT, different choices of sources of capital have same		
	(i)	EBIT		
	(ii)	EPS	Α	
	(iii)	PAT		
	(iv)	PBT		
	` '			

m.		Γ is Rs.1,00,000; Fixed Assets is Rs.2,00,000; Sales is Rs.10,00,000; Variable Cost is Rs.7,00,	000.	
		will be the Operating Leverage?		
	(i)	2		
	(ii)	3	Α	
	(iii)	6		
	(iv)	4		
n.		there are no opening or closing stocks, if profits under Absorption Costing is Rs. 1,50,000	, then	
	ŭ	inal Costing will be show		
	(i)	profits greater than Rs.1,50,000		
	(ii)	losses equal to Rs.1,50,000		
	(iii)	profits equal to Rs.1,50,000	Α	
	(iv)	None of the above as it depending on certain factors		
0.		n of the following does not help to increase the Current Ratio?		
	(i)	Issue of debentures to buy stock		
	(ii)	Issue of debentures to pay creditors		
	(iii)	Sale of investments to pay off creditors		
	(iv)	Avail bank overdraft to buy a machine	Α	
p.		holders wealth in a firm is reflected by which of the following?		
	(i)	The no. of people employed in the firm		
	(ii)	The book value of the firm's assets less the book value of its liabilities		
	(iii)	Amount of salary paid to its employees		
	(iv)	The market price per share of the firm	Α	
q.		n of the following is not an assumption of the Capital Asset Pricing Model?		
	(i)	The capital market is efficient		
	(ii)	Investor's decisions are based on a single-time period		
	(iii)	Investors lend or borrow at a risk-free rate of return		
	(iv)	Investors do not have the same expectations about the risk and return	Α	
	244 .			
r.		does Debt-Equity Ratio help to study about the firm?		
	(i)	Liquidity		
	(ii)	Solvency	Α	
	(iii)	Profitability		
	(iv)	Turnover		
	A+ D	and a comp Dainet could be a fall accionation and a company		
s.		eak-even Point, which of the following is not correct?	Α.	
	(i)	Total Cost is greater than Total Revenue	Α	
	(ii)	Total Revenue is equal to Total Variable Cost plus Total Fixed Cost		
	(iii)	There is no profit or loss		
	(iv)	Contribution is equal to Total Fixed Cost		

	t.	Which	of the following is correct in relation to Internal Rate of Return of a project?									
		(i)	Initial Cash Flows = Terminal Cash Flows									
		(ii)	Present Value of Cash Inflows = Present Value of Cash Outflows									
		(iii)	Profitability Index is greater than 1									
		(iv)	Cash Inflows = Cash Outflows									
			Section B	10 X 2 =								
			You are required to answer all the questions. Each question carries 2 marks.	20 Marks								
	In:	structio	ns: Each question is followed by a space where you are required to type your answer.									
2.	a.	Name	e the basic category of sources of data collection being used in Management Accounting?									
		Туре	your answer here Internal and External sources									
	b.	with	has Annual Fixed Costs of Rs.1,40,000. In 2021, Sales amounted to Rs.6,00,000, as compared Rs.4,50,000 in 2020, and profit in 2021 was Rs.42,000 higher than that in 2020. At what level les does the company break-even?									
		Type your answer here Rs. 5,00,000 ROUGH WORK										
		_										
		-	Ratio= 42000/150000 = 28%									
		BEP =	= 140000/28% = Rs.500000									
	c.	What	t is the usual frequency to show the sales details in Sales Budget?									
		Туре	Type your answer here Monthly									
	d.	The F	The Proprietors' Fund is Rs.45,00,000 and Ratio of Fixed Assets to Proprietors' Fund is 0.75.									
		What	t is the Net Working Capital?									
			your answer here Rs. 11,25,000									
			GH WORK:									
			Asset= 45,00,000 X 0.75=Rs.33,75,000									
			NorkingCapital = 45,00,000-33,75,000 L1,25,000									
		14th.*										
	e.		th variance is used to differentiate between actual and standard cost of material caused by the all quantity of material used exceeding the standard quantity of material allowed?									
			your answer here Quantity Variance									
	f.		Total Labour Cost of producing 500 units is Rs. 12,500 and that of producing 1,000 units is 0,000. Compute the Learning Curve Ratio.									
			your answer here 0.80									
		(Aver	GH WORK  rage Cost of first 2N units)/ (Average Labour Cost of first N units) = (Rs.20,000/ 1,000 )/(Rs.12,500/ 500 units) = 0.80									

	g.	Find the present va	lue of Rs. 1,000 receivable	e 6 years hence giver	n the rate of disco	unt is 10 percent.	
		Type your answer	here Rs. 564.5				
	h.	A project requires	a cash outlay of Rs.20,00	0, and generates cas	h inflows of Rs.8,	000, Rs. 7,000, Rs.	
		4,000 and Rs. 3,00	0 during the next 4 years.	. Find out the paybac	k period of the p	oject.	
		Type your answer	here 3 years 4 months				
	i.	What is determine	ed by William J Baumol's r	nodel of Cash Manag	gement where the	carrying cost	
		and transaction co	ost are minimum?				
		Type your answer	here optimum cash level				
	j.	X Co. earns Rs.6 p	er share having capitaliza	tion rate of 10 per co	ent and has a retu	ırn on investment	
		at the rate of 20 p	per cent. According to Wa	alter's model, what s	should be the prid	ce per share at 25	
		per cent dividend	payout ratio?				
		Type your answer	here Rs.105				
		<b>ROUGH WORK</b>					
		Walter Model is V	c = [D + (Ra/Rc)(E - D)]/Rc				
		Where:					
		Vc = Market value	of the share				
		Ra = Return on Re	tained earnings				
		Rc = Capitalisation	Rate				
		E = Earning per sh	are				
		D = Dividend per s	hare				
		Hence, if Walter m	nodel is applied Vc = [(25%	% of Rs.6) + (0.20/0.1	0)(Rs.6 – 25% of F	Rs.6)]/ 0.10	
				ion C			12 X 4 =
			ver any 4 out of 6 question		-		48 Marks
	Ins	structions: Each que	stion is followed by a spa	ce where you are re	quired to type yo	ur answer.	
				<u> </u>			
3.	a.		lizes in the manufacture of	of small capacity coo	lers. The Cost Stri	acture of a coolers	
		is as under:		D- 40			
		Material		Rs. 40			
		Labour	la.	Rs. 100			
		Variable Overhead	is f the company amounts to	75% of Labour Co		ica of the cooler is	
		Rs. 250 each.	i the company amounts to	o Ks. 2.1 lakiis pei ai	illulli. The sale pi	ice of the cooler is	
	(i)		nber of coolers that have t	to be manufactured :	and sold in a year	in order to break	3
	(1)	even.	iber of coolers that have	to be manufactured (	and sold in a year	in order to break-	, ,
		Type your answer	here 6 000 coolers				
		ROUGH WORK	nere 0,000 coolers				
		NOOGH WORK	Margir	nal Cost Statement			
		ı	Particulars	Amount (Rs.)	Amount (Rs.)		
			Sale Price	Amount (No.)	250		
					230		
			Less: Variable Cost				
			Material	40			

	Labour	100					
	Variable Overheads	75	(215)	1			
	Contribution		35				
(ii)	P/V Ratio = Contribution/Sale Price = 35 / 250 = 1 B.E. Sales × P/V Ratio = Fixed Cost B.E. Sales × 35 / 250 = Rs. 2,10,000 Or B.E. Sales = Rs. 15,00,000 B.E.P. = B.E. Sales / Sale Price = 15,00,000/250 = 6,000 coolers (OR) Break Even Sales (in units)= FC/ C p.u. =2,10,000/35 = 6,000 coolers  How many coolers will have to be made and sold to Type your answer here 10,000 coolers  ROUGH WORK	to make a profi		er year?	3		
	Required Contribution = Rs.3,50,000 (Profit + Fixe If the contribution is Rs.35, then no. of coolers to If the required contribution is Rs.3, 50,000, then I = 10,000 coolers	be made and s	old = 1	old = 3, 50,000 ÷35			
b.	TR Ltd. has two processes – Preparing and Finish (completed) at a capacity of 75%.  TE Ltd. had production problems in preparing material for their finishing process.  The existing cost structure of one prepared unit of Material: Rs. 2.00 (variable 100%)  Labour: Rs. 2.00 (variable 50%)  Overheads: Rs. 4.00 (variable 25%)  The sale price of a completed unit of TR Ltd. is Rs. Contrast the effect on the profits of TR Ltd. for with the following alternative transfer prices per unit of the profits of	and required of TR Ltd. at the . 16 with a prof 6 months (25 v	2,000 units per existing capacity it of Rs. 4 per univeeks) of supplyi	week of prepared is as follows.  t. ng units to TE Ltd.			
(i)	Marginal Cost + 25%  Type your answer here Rs.50,000						
	ROUGH WORK  Marginal Cost + 25%: Profit = 25% of Rs.4 per unit X 50,000 units = Rs.50,000						
	ROUGH WORK	X 50,000 units	= Rs.50,000				
(ii)	ROUGH WORK  Marginal Cost + 25%: Profit = 25% of Rs.4 per unit  Marginal Cost + 15% Return on Capital Employed (			lakhs)	2		
(ii)	ROUGH WORK  Marginal Cost + 25%: Profit = 25% of Rs.4 per unit	(assume Capita	l Employed Rs.20		2		

Type your answer here Rs.2,25,000 ROUGH WORK Agreed Market Price of Rs.8.50: (Agreed Market Price – Marginal Cost) per unit X 50,000 units = (Rs.8.50 – Rs.4.00) X 50,000 units = Rs.4.50 X 50,000 units = Rs.2,25,000  Transferred units (25 × 2,000) = 50,000  Marginal Cost    Particulars		(iii)	At an agreed Market P	Price of Rs. 8.50.				2		
Agreed Market Price of Rs.8.50: (Agreed Market Price – Marginal Cost) per unit X 50,000 units = (Rs.8.50 – Rs.4.00) X 50,000 units = Rs.2.25,000  Transferred units (25 × 2,000) = 50,000  Marginal Cost  Particulars Amount (Rs.)  Material 2.00  Labour 1.00  Overheads 1.00  Marginal Cost 4.00  A. a. SV Ltd has furnished you the following data:    No. of working days 25 27   Production in units 20,000 22,000			• • •	ere Rs.2,25,000						
(Rs.8.50 – Rs.4.00) X 50,000 units = Rs.4.50 X 50,000 units = Rs.2,25,000  Transferred units (25 × 2,000) = 50,000  Marginal Cost  Particulars   Amount (Rs.)   Material   2.00   Labour   1.00   Doverheads   1.00   Marginal Cost   4.00    4. a. SV Ltd has furnished you the following data:    No. of working days   25   27   Production in units   20,000   22,000   Fixed overheads (Rs.)   30,000   31,000    Budgeted Fixed OH rate is Re.1 per hour. In March 2022 the actual hours worked were 31,500 hours.  Calculate the following in relation to Fixed Overheads.  (i) Calculate Efficiency and Capacity Variances.   2   Type your answer here   FOH Efficiency Variance: Rs.1,500 (Favourable)   FOH Capacity Variance: Rs.900 (Adverse)    (ii) Calculate Calendar and Volume Variances.   2   Type your answer here   FOH Calendar Variance: Rs.2,400 (Favourable)   FOH Volume Variance: Rs.3,000 (Favourable)    (iii) Calculate Expenditure and Total Overhead Variances.   2   Type your answer here   FOH Budget or Expenditure Variance: Rs.1,000 (Adverse)   FOH Cost Variance: Rs.2,000 (Favourable)    (iv) Calculate Standard Quantity (SQ) and Revised Budgeted Fixed Overhead.   2   Type your answer here   Standard Quantity (SQ): 21,000 units   Revised Budgeted Fixed Overhead: Rs.32,400   ROUGH WORK										
Transferred units (25 × 2,000) = 50,000  Marginal Cost  Particulars   Amount (Rs.)   Material   2,00   Labour   1,00   Overheads   1,00   Marginal Cost   4,00    4. a. SV Ltd has furnished you the following data:			-				t X 50,000 units =			
Marginal Cost    Particulars			(Rs.8.50 – Rs.4.00) X	50,000 units = Rs.4.50 X 50	0,000 units = Rs.2,2	25,000				
Particulars   Amount (Rs.)   Material   2.00   Labour   1.00   Overheads   1.00   Overheads   1.00   Marginal Cost   4.00    4. a. SV Ltd has furnished you the following data:    SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you the following data:   SV Ltd has furnished you have left for such that it is such that it i			Transferred units (25	5 × 2,000) = 50,000						
Material 2.00 Labour 1.00 Overheads 1.00 Narginal Cost 4.00  4. a. SV Ltd has furnished you the following data:				Mai	rginal Cost					
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A. a. SV Ltd has furnished you the following data:    SV Ltd has furnished you the following data:   Budgeted   Actual   No. of working days   25   27   Production in units   20,000   22,000   Fixed overheads (Rs.)   30,000   31,000   31,000				Material	2.00					
4. a. SV Ltd has furnished you the following data:    Budgeted				Labour	1.00					
4. a. SV Ltd has furnished you the following data:    No. of working days   25   27				Overheads	1.00					
Budgeted   Actual   No. of working days   25   27   Production in units   20,000   22,000   Eixed overheads (Rs.)   30,000   31,000   31,000   Sixed overheads (Rs.)   30,000   31,000   Sixed overheads (Rs.)   30,000   31,000   Sixed overheads (Rs.)   Sixed overheads (				Marginal Cost	4.00					
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No. of working days  25 27  Production in units 20,000 22,000  Fixed overheads (Rs.) 30,000 31,000  Budgeted Fixed OH rate is Re.1 per hour. In March 2022 the actual hours worked were 31,500 hours.  Calculate the following in relation to Fixed Overheads.  (i) Calculate Efficiency and Capacity Variances. 2  Type your answer here FOH Efficiency Variance: Rs.1,500 (Favourable) FOH Capacity Variance: Rs.900 (Adverse)  (ii) Calculate Calendar and Volume Variances. 2  Type your answer here FOH Calendar Variance: Rs.2,400 (Favourable) FOH Volume Variance: Rs.3,000 (Favourable)  (iii) Calculate Expenditure and Total Overhead Variances. 2  Type your answer here FOH Budget or Expenditure Variance: Rs.1,000 (Adverse) FOH Cost Variance: Rs.2,000 (Favourable)  (iv) Calculate Standard Quantity (SQ) and Revised Budgeted Fixed Overhead. 2  Type your answer here Standard Quantity (SQ): 21,000 units Revised Budgeted Fixed Overhead: Rs. 32,400  ROUGH WORK		- 1	Γ	,	Budgeted	Actual	]			
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(iv) Calculate Standard Quantity (SQ) and Revised Budgeted Fixed Overhead. 2  Type your answer here Standard Quantity (SQ): 21,000 units Revised Budgeted Fixed Overhead: Rs. 32,400  ROUGH WORK			FOH Budget or Expen	nditure Variance: Rs.1,000	(Adverse)					
Type your answer here Standard Quantity (SQ): 21,000 units Revised Budgeted Fixed Overhead: Rs. 32,400  ROUGH WORK			FOH Cost Variance: R	s.2,000 (Favourable)						
Standard Quantity (SQ): 21,000 units Revised Budgeted Fixed Overhead: Rs. 32,400  ROUGH WORK		(iv)	Calculate Standard Q	uantity (SQ) and Revised B	Budgeted Fixed Ove	erhead.		2		
Revised Budgeted Fixed Overhead: Rs. 32,400  ROUGH WORK			Type your answer he	ere						
ROUGH WORK			Standard Quantity (S	Q): 21,000 units						
			Revised Budgeted Fix	xed Overhead: Rs. 32,400						
			ROUGH WORK							
Computation of negatives				Computation	of Required Values	6				

		SRSH (1) (Rs.	) SRAH (2) (Rs.)	SRRBH (3) (Rs.)	SRBH (4) (Rs.)	ARAH (5) (Rs.)						
		1 x 33,000	1 x 31,500	1 x 32,400								
		33,000	31,500	32,400	30,000	30,000	1					
	RBH	H = 30,000 × 27/	<sup>'</sup> 25 = 32,400 25				_					
	Stai	ndard Time per	unit = 30,000 hoน	ırs/ 20,000 units = 1	5 hours							
	SH:	= 22,000 x 1.5 =	33,000 hours									
	S	SRSQ (1) (Rs.)	SRAQ (2) (Rs.)	SRRBQ (3) (Rs.)	SRBH (4) (Rs.)	ARAH (5) (Rs.)						
		1 x 33,000	1 x 31,500	1 x 32,400								
		33,000	31,500	32,400	30,000	30,000						
		SRSQ (1) (Rs.)	SRAQ (2) (Rs.)	SRRBQ (3) (Rs.)	SRBQ (4) (Rs.)	ARAQ (5) (Rs.)						
		1.5 x 22,000	1.5 x 21,000	1.5 x 21,600	1.5 x 20,000							
		33,000	31,500	32,400	30,000	30,000						
		,		,000/ 20,000 = 1.5 h	ours							
		RBQ = 20,000 × 27/25 = 21,600										
			20,000/ 30,000 u	unit								
		= 31,500 × 2 3 =										
				ndard FOH's = Rs. 33								
				ctual FOH's = Rs. 31,								
	3. SRRBH/ SRRBQ – Revised Budgeted FOH's = Rs. 32,400											
	4. SRBH/ SRBQ – Standard Fixed overheads = Rs. 30,000 5. ARAH/ARAQ – Actual Fixed overheads = Rs. 31,000 (i) FOH Efficiency Variance = (1) – (2) = 1,500 (F)											
		•	riance = (1) = (2) - riance = (2) = (3) =									
			ariance = (2) = (3) - (4)									
			riance = (3) - (4) =									
				e = (4) - (5) = 1,000 (	Δ)							
			ce = (1) - (5) = 2,0									
	(**/		(2) (3) 2)	(.)								
b.	Disci	uss the requisite	es for effective va	riance reporting.			4					
		your answer h										
	In or	rder that varian	ce reporting sho	uld be effective, it i	s essential that th	e following requisi	tes are					
	fulfil	led:										
	1. Th	ne variances aris	sing out of each fa	actor should be corr	ectly segregated. If	f part of a variance	due to					
	one	factor is wrong	ly attributed to o	r merged with that	of another, the ana	alysis report submi	tted to					
	the r	management wo	ould be misleadin	g and wrong conclus	sions may be drawi	n from it.						
	2. Va	ariances, particu	ularly the control	lable variances shou	ld be reported wit	th promptness as s	soon as					
		•		ard Costing and repo	_							
				ends on the extent								
			_	s which cause varia								
		_		onsibility, the variar								
				ction being taken for	future production	while work is in pr	rogress					
			ect or job is comp									
	3. Fo	or effective con	trol, the line of o	organisation should	be properly define	ed and the authori	ity and					

		responsibility of each individual should	d be laid down in clear	terms. This will avoid	'passing on the	<u> </u>			
		buck' and shirking of responsibility a							
		appropriate levels of management.							
		4. In certain cases, a particular variance	e may be the joint respo	onsibility of more than o	one individual or				
		department. It is obvious that if correc	tive action has to be eff	fective in such cases, it	should be taken				
		jointly.							
		5. Analysis of uncontrollable variance							
		variances. Though a particular variance							
		detailed analysis of the off-standard sit	•		*				
		concern. This should compel the top		corrective action, say,	by changing the				
		policy which gave rise to the uncontrol	lable variance.						
5.	a.	Following estimates of AL Ltd. are avail	able below:-						
		Advertisement Rs.2,000							
		Salaries of the Sales Department Rs. 1	,500						
		Expenses of the Sales Department (Fix	red) Rs. 1,000						
		Salesmen's remuneration Rs. 2,500							
		Salesmen's and Dearness Allowance -	_	ales affected					
		Carriage outwards: Estimated @ 5% o	n sales						
		Agents Commission: 5% on sales The sales during the period were esting							
		(i) Rs.60,000 including Agent's Sales R							
		(ii) Rs.70,000 including Agent's Sales R							
	(i)	(iii) Rs.90,000 including Agent's Sales I Calculate total variable sales overhead		60 000 and Rs 90 000		2			
	1.7		TOT the sales level of Rs.	. 00,000 and 113. 30,000					
		Type your answer here							
		For 60,000 sales level: Rs. 3,840							
		For 90,000 sales level: Rs. 5,780							
	(ii)	i) Calculate total selling overhead for the sales level of Rs. 70,000.							
	(,	Type your answer here Rs. 11,520	34103 10 001 113. 7 0,000			2			
		ROUGH WORK							
			g Overhead Budget of A						
		Sales	60,000	70,000	90,000				
		A) Fixed Overhead:							
		Advertisement	2,000	2,000	2,000				
		Salaries of Sales Department	1,500	1,500	1,500				
		Expenses of the Sales	1,000	1,000	1,000				
		Department							
		Salesman remuneration	2,500	2,500	2,500				
		Total (A)	7,000	7,000	7,000				
		B) Variable Overhead:							

	Commission@1%of sales	1% of 54000 =	1% of 62000 = 620	1% of 80500 =				
	affected	540		805				
	Carriage outward@ 5% of sales	3,000	3500	4,500				
	Agents Commission @5%	5% of 6000 = 300	5% of 8,000 = 400	5% of 9500 = 475				
	Total (B)	3,840	4,520	5,780				
	Grand Total (A) + (B)	10,840	11,520	12,780				
b.	ABC Co. experiences difficulty in learning effect as new products a Substantial product changes occ	are introduced.		essary to qualify the				
	An order for 30 units of a new completed; The first unit required 40 direct I the 14 units. The production management of the 14 units are standard absorpt unit is manufactured and its direct company uses standard and its direct limits are standard and its direct limits and its direct limits are standard and its direct limits are standard and its direct limits are standard and its direct limits.	abour hours and a total anager expects an 80% ion costing. The direct	of 240 direct labour hat learning effect for this costs attributed to the	is been recorded for s type of work. The				
	Direct Materia	30.00 per unit						
	Direct Wages	6.00 per hour						
	Variable Overl	nead 0.50 per direct	labour hour					
	Fixed Overhea	d 6,000 per four-	week operating period					
	There are ten direct employees downtime allowances account f			Personal and other				
(i)	What is the average time if learning	ng effect is 80% (Learnii	ng Co-efficient = - 0.322	)?	2			
	Type your answer here 17.14 hou ROUGH WORK	irs						
	Total time taken to produce 14 ur	nits						
	Y = ax^b							
	Y = 40(14)^-0.322							
	= 17.14 (Average Time)							
(ii)	Calculate the number of direct la	hour hours likely to be	required for an expecte	ed second order of 20	2			
(,	units.	ocal moule interpret	. oquii ou i oi uii oiipooto					
	Type your answer here 166.1 ho	urs						
	ROUGH WORK							
	Initial order 30 units							
	Y = 40 (30)-0.322 = 13.380 hours	(Average time)						
	total order 50 units							
	Y = 40 (50)-0.322 = 11.35 hours (Average time)							

C. The following information has been made available as on 31st March, 2022:    Working Capital   Rs.2,00,000     Reserves & Surplus   Rs. 60,000     Bank Overdraft   Rs.35,000     Proprietary Ratio   0.60     Current Ratio   3.00     Liquid Ratio   2.00     Determine the following:   (i) Total Current Assets   (ii) Total Current Liabilities   (iii) Quick Assets   (iv) Share Capital		Time taken for 20 units fro		•	,			
Reserves & Surplus	C.	The following information	has been m	nade availabl	e as on 31 <sup>st</sup> March, 2	2022:		
Reserves & Surplus								
Bank Overdraft					Rs. 60,000			
Current Ratio 3.00 Liquid Ratio 2.00  Determine the following: (i) Total Current Assets (ii) Total Current Liabilities (iii) Quick Assets (iv) Share Capital  Type your answer here (i) Total Current Liabilities: Rs.1,00,000 (ii) Total Current Liabilities: Rs.1,00,000 (iii) Quick Assets: Rs.1,30,000 (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000 Reserves & Surplus 60,000 Current Assets: Current Liabilities: Stock 1,70,000 Bank Overdraft 35,000 Quick Assets 1,30,000 Other C.L. 65,000 Total 6,00,000 Total 6,00,000								
Liquid Ratio 2.00  Determine the following: (i) Total Current Assets (ii) Total Current Liabilities (iii) Quick Assets (iv) Share Capital  Type your answer here (i) Total Current Assets: Rs.3,00,000 (ii) Total Current Liabilities: Rs.1,00,000 (iii) Quick Assets: Rs.1,30,000 (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000 Reserves & Surplus 60,000 Current Assets: Current Liabilities: Stock 1,70,000 Bank Overdraft 35,000 Quick Assets 1,30,000 Other C.L. 65,000 Total 6,00,000 Total 6,00,000			Propi	ietary Ratio	0.60			
Determine the following:  (i) Total Current Assets  (ii) Total Current Liabilities  (iii) Quick Assets  (iv) Share Capital  Type your answer here  (i) Total Current Liabilities: Rs.3,00,000  (ii) Total Current Liabilities: Rs.1,00,000  (iii) Quick Assets: Rs.1,30,000  (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000  Reserves & Surplus 60,000 Current Assets:  Current Liabilities: Stock 1,70,000  Bank Overdraft 35,000 Quick Assets 1,30,000  Other C.L. 65,000  Total 6,00,000 Total 6,00,000			Cur	rent Ratio	3.00			
(i) Total Current Assets (ii) Total Current Liabilities (iii) Quick Assets (iv) Share Capital  Type your answer here (i) Total Current Assets: Rs.3,00,000 (ii) Total Current Liabilities: Rs.1,00,000 (iii) Quick Assets: Rs.1,30,000 (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000 Reserves & Surplus 60,000 Current Assets:  Current Liabilities: Stock 1,70,000 Bank Overdraft 35,000 Quick Assets 1,30,000 Other C.L. 65,000 Total 6,00,000 Total 6,00,000			Lic	uid Ratio	2.00			
(i) Total Current Assets (ii) Total Current Liabilities (iii) Quick Assets (iv) Share Capital  Type your answer here (i) Total Current Assets: Rs.3,00,000 (ii) Total Current Liabilities: Rs.1,00,000 (iii) Quick Assets: Rs.1,30,000 (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000 Reserves & Surplus 60,000 Current Assets:  Current Liabilities: Stock 1,70,000 Bank Overdraft 35,000 Quick Assets 1,30,000 Other C.L. 65,000 Total 6,00,000 Total 6,00,000		Determine the following:						
(iii) Quick Assets (iv) Share Capital  Type your answer here (i) Total Current Assets: Rs.3,00,000 (ii) Total Current Liabilities: Rs.1,00,000 (iii) Quick Assets: Rs.1,30,000 (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Rs. Assets Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000 Reserves & Surplus 60,000 Current Assets:  Current Liabilities: Stock 1,70,000  Bank Overdraft 35,000 Quick Assets 1,30,000  Other C.L. 65,000  Total 6,00,000 Total 6,00,000		_						
(iv) Share Capital           Type your answer here           (i) Total Current Assets: Rs.3,00,000           (iii) Total Current Liabilities: Rs.1,00,000           (iiii) Quick Assets: Rs.1,30,000           (iv) Share Capital: Rs.4,40,000           ROUGH WORK           Summarized Statement of Assets and Liabilities as on 31st March, 2022           Liabilities         Rs.         Rs.         Rs.         Rs.         Ss.         Ss								
Type your answer here  (i) Total Current Assets: Rs.3,00,000  (ii) Total Current Liabilities: Rs.1,00,000  (iii) Quick Assets: Rs.1,30,000  (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000  Reserves & Surplus 60,000 Current Assets:  Current Liabilities: Stock 1,70,000  Bank Overdraft 35,000 Quick Assets 1,30,000  Other C.L. 65,000 3,00,000  Total 6,00,000 Total 6,00,000		• •						
(i) Total Current Assets: Rs.3,00,000 (ii) Total Current Liabilities: Rs.1,00,000 (iii) Quick Assets: Rs.1,30,000 (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000  Reserves & Surplus 60,000 Current Assets:  Current Liabilities: Stock 1,70,000  Bank Overdraft 35,000 Quick Assets 1,30,000  Other C.L. 65,000 3,00,000  Total 6,00,000 Total 6,00,000		(iv) Share Capital						
(iii) Total Current Liabilities: Rs.1,00,000 (iii) Quick Assets: Rs.1,30,000 (iv) Share Capital: Rs.4,40,000  ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000 Reserves & Surplus 60,000 Current Assets:  Current Liabilities: Stock 1,70,000 Bank Overdraft 35,000 Quick Assets 1,30,000 Other C.L. 65,000 3,00,000  Total 6,00,000 Total 6,00,000		Type your answer here						
(iii) Quick Assets: Rs.1,30,000         (iv) Share Capital: Rs.4,40,000         ROUGH WORK         Summarized Statement of Assets and Liabilities as on 31st March, 2022         Liabilities       Rs.       Rs.       Assets       Rs.       Rs.         Share Capital       4,40,000       Fixed Assets       3,00,000         Reserves & Surplus       60,000       Current Assets:       Current Liabilities:         Current Liabilities:       Stock       1,70,000         Bank Overdraft       35,000       Quick Assets       1,30,000         Other C.L.       65,000       3,00,000         Total       6,00,000       Total       6,00,000		(i) Total Current Assets: Rs.	3,00,000					
(iii) Quick Assets: Rs.1,30,000         (iv) Share Capital: Rs.4,40,000         ROUGH WORK         Summarized Statement of Assets and Liabilities as on 31st March, 2022         Liabilities       Rs.       Rs.       Assets       Rs.       Rs.         Share Capital       4,40,000       Fixed Assets       3,00,000         Reserves & Surplus       60,000       Current Assets:       Current Liabilities:         Current Liabilities:       Stock       1,70,000         Bank Overdraft       35,000       Quick Assets       1,30,000         Other C.L.       65,000       3,00,000         Total       6,00,000       Total       6,00,000		` '		)				
ROUGH WORK  Summarized Statement of Assets and Liabilities as on 31st March, 2022  Liabilities Rs. Rs. Assets Rs. Rs. Share Capital 4,40,000 Fixed Assets 3,00,000 Reserves & Surplus 60,000 Current Assets:  Current Liabilities: Stock 1,70,000 Bank Overdraft 35,000 Quick Assets 1,30,000 Other C.L. 65,000 3,00,000 Total 6,00,000		• •						
ROUGH WORK           Summarized Statement of Assets and Liabilities as on 31st March, 2022           Liabilities         Rs.								
Share Capital         4,40,000         Fixed Assets         3,00,000           Reserves & Surplus         60,000         Current Assets:           Current Liabilities:         Stock         1,70,000           Bank Overdraft         35,000         Quick Assets         1,30,000           Other C.L.         65,000         3,00,000           Total         6,00,000         Total         6,00,000			1				1	
Reserves & Surplus         60,000         Current Assets:           Current Liabilities:         Stock         1,70,000           Bank Overdraft         35,000         Quick Assets         1,30,000           Other C.L.         65,000         3,00,000           Total         6,00,000         Total         6,00,000		Share Capital		4,40,000	Fixed Assets		3,00,000	
Bank Overdraft         35,000         Quick Assets         1,30,000           Other C.L.         65,000         3,00,000           Total         6,00,000         Total         6,00,000					Current Assets:			
Other C.L.         65,000         3,00,000           1,00,000         6,00,000         6,00,000		Current Liabilities:			Stock	1,70,000		
1,00,000 Total 6,00,000			35,000		Quick Assets	1.30.000		
Total 6,00,000 Total 6,00,000		Bank Overdraft			Quick / 155Ct5	-//		
			65,000		Quick/issets		3,00,000	
Working Notes			65,000	1,00,000	Quick / issets		3,00,000	
Working Notes.		Other C.L.	65,000					
		Other C.L.  Total  Working Notes:		6,00,000	Total		6,00,000	
Computation of Current Assets and Current Liabilities and Current Liabilities other than Bank		Other C.L.  Total  Working Notes: Computation of Current A		6,00,000	Total		6,00,000	
Overdraft		Other C.L.  Total  Working Notes:  Computation of Current A  Overdraft	ssets and Cu	6,00,000 urrent Liabili	Total ties and Current Liab	ilities other th	6,00,000	
Overdraft Current Ratio = Current Assets (CA)/ Current Liabilities (CL) = 3.00 i.e., 3.0 : 1.0		Other C.L.  Total  Working Notes: Computation of Current A Overdraft Current Ratio = Current As	ssets and Cu	6,00,000 urrent Liabili	Total ties and Current Liab	ilities other th	6,00,000	
Overdraft Current Ratio = Current Assets (CA)/ Current Liabilities (CL) = 3.00 i.e., 3.0 : 1.0 Working Capital = Rs. 2,00,000		Other C.L.  Total  Working Notes: Computation of Current A Overdraft Current Ratio = Current As Working Capital = Rs. 2,000	ssets and Cu ssets (CA)/ C	6,00,000 urrent Liabili	Total ties and Current Liab ities (CL) = 3.00 i.e.,	ilities other th	6,00,000	
Overdraft  Current Ratio = Current Assets (CA)/ Current Liabilities (CL) = 3.00 i.e., 3.0 : 1.0  Working Capital = Rs. 2,00,000  Current Assets / Current Liabilities = 3.0 CA = 3.0 CL		Other C.L.  Total  Working Notes: Computation of Current A Overdraft Current Ratio = Current As Working Capital = Rs. 2,00 Current Assets / Current L	ssets and Cu ssets (CA)/ C	6,00,000 urrent Liabili	Total ties and Current Liab ities (CL) = 3.00 i.e.,	ilities other th	6,00,000	
Overdraft  Current Ratio = Current Assets (CA)/ Current Liabilities (CL) = 3.00 i.e., 3.0 : 1.0  Working Capital = Rs. 2,00,000  Current Assets / Current Liabilities = 3.0 CA = 3.0 CL  CA - CL = Rs. 2,00,,000		Other C.L.  Total  Working Notes: Computation of Current A Overdraft Current Ratio = Current As Working Capital = Rs. 2,00 Current Assets / Current L CA – CL = Rs. 2,00,,000	ssets and Cu ssets (CA)/ C	6,00,000 urrent Liabili	Total ties and Current Liab ities (CL) = 3.00 i.e.,	ilities other th	6,00,000	
Overdraft  Current Ratio = Current Assets (CA)/ Current Liabilities (CL) = 3.00 i.e., 3.0 : 1.0  Working Capital = Rs. 2,00,000  Current Assets / Current Liabilities = 3.0 CA = 3.0 CL  CA - CL = Rs. 2,00,,000  3.0 CL - CL = 2,00,000		Other C.L.  Total  Working Notes: Computation of Current A Overdraft Current Ratio = Current As Working Capital = Rs. 2,00 Current Assets / Current L CA – CL = Rs. 2,00,,000 3.0 CL – CL = 2,00,000	ssets and Cu ssets (CA)/ C	6,00,000 urrent Liabili	Total ties and Current Liab ities (CL) = 3.00 i.e.,	ilities other th	6,00,000	
Overdraft  Current Ratio = Current Assets (CA)/ Current Liabilities (CL) = 3.00 i.e., 3.0 : 1.0  Working Capital = Rs. 2,00,000  Current Assets / Current Liabilities = 3.0 CA = 3.0 CL  CA - CL = Rs. 2,00,,000		Other C.L.  Total  Working Notes: Computation of Current A Overdraft Current Ratio = Current As Working Capital = Rs. 2,00 Current Assets / Current L CA – CL = Rs. 2,00,,000 3.0 CL – CL = 2,00,000	ssets and Cu ssets (CA)/ C	6,00,000 urrent Liabili	Total ties and Current Liab ities (CL) = 3.00 i.e., 3	ilities other th	6,00,000	
Overdraft  Current Ratio = Current Assets (CA)/ Current Liabilities (CL) = 3.00 i.e., 3.0 : 1.0  Working Capital = Rs. 2,00,000  Current Assets / Current Liabilities = 3.0 CA = 3.0 CL  CA - CL = Rs. 2,00,,000  3.0 CL - CL = 2,00,000		Other C.L.  Total  Working Notes: Computation of Current A Overdraft Current Ratio = Current As Working Capital = Rs. 2,00 Current Assets / Current L CA - CL = Rs. 2,00,,000 3.0 CL - CL = 2,00,000 2.0 CL = 2,00,000	ssets and Cu ssets (CA)/ C	6,00,000 urrent Liabili	Total ties and Current Liab ities (CL) = 3.00 i.e., 3	ilities other th	6,00,000	
Overdraft Current Ratio = Current Assets (CA)/ Current Liabilities (CL) = 3.00 i.e., 3.0 : 1.0 Working Capital = Rs. 2,00,000 Current Assets / Current Liabilities = 3.0 CA = 3.0 CL CA - CL = Rs. 2,00,000 3.0 CL - CL = 2,00,000 2.0 CL = 2,00,000		Other C.L.  Total  Working Notes: Computation of Current A Overdraft Current Ratio = Current As Working Capital = Rs. 2,00 Current Assets / Current L CA - CL = Rs. 2,00,,000 3.0 CL - CL = 2,00,000 2.0 CL = 2,00,000 CL = 2,00,000 / 2.0	ssets and Cu ssets (CA)/ C	6,00,000 urrent Liabili	Total ties and Current Liab ities (CL) = 3.00 i.e., 3	ilities other th	6,00,000	

_									
			3,00,000						
		Bank Ov		Rs. 35,000					
			(balancing figure)						
		CL		Rs. 1,00,000					
		-		ets, Quick Assets and Stock					
		Liquid Ra		CL (Excluding Bank Overdraft)					
		CL (Evolu	= 2.00 i.e., 2.00	:1.00 t) = Rs. 1,00,000 – Rs. 35,000	- Pc 6F 000				
		•		2.0 / 1.0 = Rs. 1,30,000	- KS. 05,000				
			CA - Quick Assets	2.0 / 1.0 – NS. 1,30,000					
				30.000 = Rs. 1,70,000					
			ation of Share Capit						
		-	•	ssets/ Proprietary Funds) = 0.0	50				
		-		ietary Funds = 0.40					
		Proprieta	ary Funds = (1/0.40	× Working Capital of Rs.2,00	,000 = Rs. 5,00,000				
		Share Ca	pital = Proprietary	Funds - Reserves & Surplus					
			= Rs. 5,00,000	- Rs. 60,000 = Rs. 4,40,000					
6.	a.	Consider the following information of K Ltd:							
					Rs. In	lakhs			
			EBIT		1,120				
			EBT		320				
		Fixed Cost 700							
	(:)	Calaulata	+h	ating lawares and the degree	of financial lavages			3	
	(i)	Calculate the degree of operating leverage and the degree of financial leverage.							
		Type your answer here							
		Degree of Operating Leverage: 1.625							
		Degree of Financial Leverage: 3.5							
		ROUGH V							
		(i)	Degree of Opera	ting Leverage = Contribution/	FBIT=[FBIT+ Fixed Cost]/	FBIT			
		(-)	=[1120+700]/11						
		(ii)		ial Leverage = EBIT/EBT					
		(11)		iai Leverage – Ebit/Ebi					
			=1120/320=3.5						
	(ii)	What will	be the percentage	change in earnings per share	if sales increased by 5%?	Ji		3	
			r answer here						
		Percentag	ge Changes in EPS=5	5 x 5.6875= 28.4375					
		ROUGH WORK:							

	Degree of Combined Le =1.625*3.5 =5.6875	verage = I	Degree o	f Operati	ing Lever	age x Deg	ree of Financial Leverage	
	Degree of Combined Leve	rage= % Cl	nanges in	EPS/% Ch	nanges in	Sales		
	5.6875= % Ch	anges in El	PS/5					
	% Changes in	EPS=5 x 5.0	6875= 28	.4375				
b.	Following are the data on	a capital p	roject be	ing evalua	ated by th	ne managen	nent of PKJ Ltd.:	4
		<u> </u>	Particu	ılars	-	Project N	1	
	7	Annual Cos	t Saving (	Rs.)		40,000		
	I	Jseful life (	in years)			4		
		.R.R (%)				15		
	_	Profitability	Index (P	I)		1.064		
		NPV (Rs.)				?		
	<u> </u>	Cost of Proj				?		
	<u> </u>	Cost of Cap				?		
	<u> </u>	Pay Back Pe Salvage Val		rears)		? NIL	_	
		baivage vai	ue (NS.)			INIL		
	Find the missing values us	sing approp	riate disc	count fact	ors from	the table b	elow:	
	_							
				Discoun	t Factors			
		Year	15%	14%	13%	12%		
		1	0.869	0.877	0.885	0.893		
		2	0.756	0.769	0.783	0.797		
		3	0.658 0.572	0.675 0.592	0.693 0.613	0.712 0.636		
		5	2.855	2.913	2.974	3.038		
			2.033	2.313	2.374	3.030		
	Type answer here							
	NPV: Rs.7,309							
	Cost of Project: Rs.1,14,20	00						
	Cost of Capital: 12% Pay Back Period: 2.855 ye	2.00						
	Pay Back Periou. 2.855 ye	ars						
	ROUGH WORK							
	CIAT = 40,000							
	Life = 4 years							
	IRR = 15%							
	PI = 1.064							
	At 15% IRR							
	PV of Cash Inflow = Cost of	_	made et					
	40,000 PVAF 4 years 15%	= Cost of P	roject					

	Cost of project = $40,000 \times 2.855 = 1,14,200$	)			
	PI = PV of Cash Inflow /Initial Outflow = 1.0				
	-				
	•				
	•	38			
	•				
	Payback period = Initial Investment/ Annua	al Cash flo	ow = 1,14,200 /4	0,000 = 2.855 years	
	WI - 1 - 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
c.		•			2
	•• •				
			•		
				•	
			•	•	
		luction in	terruptions, whil	e excessive cash remains idle and	
	will impair profitability.				
a.	BE Ltd. produces a product with the follow	wing reve	nue cost structui	re:	6
	· · · · · · · · · · · · · · · · · · ·	-		]	·
				-	
	Direct I	Labour		-	
				1	
				-	
				-	
		nrice		-	
				1	
	_		month		
	<del>-</del>			ials 100% Direct Jahour 50%	
			nen nav mate.	1415 15070, 211 202 145041 5070,	
	•	stock: on	e month		
		- DC3. Hall-	a monu		
		a cash ha	nsis		
	Assume uniform production throughout				
		y Cul.			
		1.064 = PV of Cash Inflow /1,14,200 PV of Cash Inflow = 1,21,509 Less: Outflow = 1,14,200 NPV = Rs. 7,309 At Cost of Capital, Let r be the Cost of Capital (Ko) PV of Cash Inflow 40,000 PVAF r% 4 years = 1,21,509 PVAF n% 4 years = 1,21,509 / 40,000 = 3.0 r = 12% Payback period = Initial Investment/ Annual  What do you mean by Cash Management? Type your answer here Cash refers to coins, currency, cheques, includes near cash assets such as marketa these near cash assets are included in case excess cash is invested in marketable sec most important components of current as nor less. Inadequate cash will lead to produvill impair profitability.  BE Ltd. produces a product with the follow Partic Raw M Direct Overhea Total C Profit Selling The following additional information is a A. Average raw materials in s B. Average work in process: I Overheads 50% complete C. Average finished goods in D. Credit allowed by supplier E. Credit allowed to debtors: F. Time lag in payment of wa G. Overheads: one month H. One fourth of sales are on	1.064 = PV of Cash Inflow /1,14,200 PV of Cash Inflow = 1,21,509 Less: Outflow = 1,14,200 NPV = Rs. 7,309 At Cost of Capital, Let r be the Cost of Capital (Ko) PV of Cash Inflow 40,000 PVAF r% 4 years = 1,21,509 PVAF n% 4 years = 1,21,509 / 40,000 = 3.038 r = 12% Payback period = Initial Investment/ Annual Cash flow  1. What do you mean by Cash Management? Type your answer here Cash refers to coins, currency, cheques, drafts a includes near cash assets such as marketable securities as most important components of current assets. Evenor less. Inadequate cash will lead to production in will impair profitability.  1. BE Ltd. produces a product with the following revenor less. Inadequate cash will lead to production in will impair profitability.  1. BE Ltd. produces a product with the following revenor less. Inadequate cash will lead to production in will impair profitability.  1. BE Ltd. produces a product with the following revenor less. Inadequate cash will lead to production in will impair profitability.  1. BE Ltd. produces a product with the following revenor less. Inadequate cash will lead to production in will impair profitability.  1. BE Ltd. produces a product with the following revenor less. Inadequate cash will lead to production in will impair profitability.  1. BE Ltd. produces a product with the following revenor less. Inadequate cash will lead to production in will impair profitability.  1. BE Ltd. produces a product with the following revenor less. Inadequate cash will lead to production in will impair profitability.	1.064 = PV of Cash Inflow /1,14,200 PV of Cash Inflow = 1,21,509 Less: Outflow = 1,14,200 NPV = Rs. 7,309 At Cost of Capital, Let r be the Cost of Capital (Ko) PV of Cash Inflow 40,000 PVAF r% 4 years = 1,21,509 PVAF n% 4 years = 1,21,509 / 40,000 = 3.038 r = 12% Payback period = Initial Investment/ Annual Cash flow = 1,14,200 /4  What do you mean by Cash Management?  Type your answer here Cash refers to coins, currency, cheques, drafts and deposits in be included near cash assets such as marketable securities and time deposes these near cash assets are included in cash is that they can readily excess cash is invested in marketable securities as it contributes to most important components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the components of current assets. Every firm should heard in the component of the current assets are included in cash is that they can readily excess cash is the current assets. Every firm should heard in the current assets are included in cash is that they can readily excess cash is the current assets. Every firm should heard in the current assets and the current assets are constituted to current assets. Every firm should heard in the current assets and cash is that they can readily excess cash is the current assets. Every firm should heard in the current assets	1.064 = PV of Cash Inflow /1,14,200 PV of Cash Inflow = 1,21,509 Less: Outflow = 1,14,200 NPV = Rs. 7,309 At Cost of Capital, Let r be the Cost of Capital (Ko) PV of Cash Inflow 40,000 PVAF r% 4 years = 1,21,509 PVAF n% 4 years = 1,21,509 / 40,000 = 3.038 r = 12% Payback period = Initial Investment/ Annual Cash flow = 1,14,200 /40,000 = 2.855 years  What do you mean by Cash Management? Type your answer here Cash refers to coins, currency, cheques, drafts and deposits in banks. The broader view of cash includes near cash assets such as marketable securities and time deposits in banks. The reason why these near cash assets such as marketable securities and time deposits in banks. The reason why these near cash assets are included in cash is that they can readily be converted into cash. Usually, excess cash is invested in marketable securities as it contributes to profitability. Cash is one of the most important components of current assets. Every firm should have adequate cash, neither more nor less. Inadequate cash will lead to production interruptions, while excessive cash remains idle and will impair profitability.  BE Ltd. produces a product with the following revenue cost structure:  Particulars per unit (Rs.) Raw Material 105 Direct Labour 70 Overheads 35 Total Cost 210 Profit 80 Selling price 290  The following additional information is available:  A. Average raw materials in stock; one month.  B. Average work in process: half-a-month = Raw Materials 100%, Direct labour 50%, Overheads 50% complete C. Average finished goods in stock: one month D. Credit allowed to debtors: two months F. Time lag in payment of wages: half-a-month G. Overheads: one month H. One fourth of sales are on a cash basis

	Type answer here	=					
	(i) Current Liability	y: Rs.7,29	,168				
	(ii) Gross Working Capital: Rs.24,46,874						
	(iii) Net Working Capital: Rs.17,17,706						
	ROUGH WORK						
	Gross Working Capital:						
	Stock of Raw Material (50,000 units $\times$ 105 $\times$ 1/12) = Rs. 4,37,500						
	Work –in –progi	ress:					
			hits $\times 105 \times 1/12 \times 1/2$ ) = Rs.				
	-		its $\times$ 70 $\times$ 1/12 $\times$ 1/2 $\times$ 1/2) =				
	-		$\times 35 \times 1/12 \times 1/2 \times 1/2) = Rs.$				
			$50,000 \text{ units} \times 210 \times 1/12) =$				
			/4 × 210 × 1/12) = Rs.6,56,2	50			
	Cash Balance = I		JU				
	Total (A) = Rs.24,46,874						
	Current Liabilities: Creditors for Raw Material (50,000 units $\times$ 105 $\times$ 1/12) = Rs.4,37,500						
			000 units $\times$ 70 $\times$ 1/12 $\times$ 1/2)				
			$50,000 \text{ units} \times 35 \times 1/12) =$				
	Total (B) = Rs.7,29,168						
	Net Working Capital (A-B) = Rs.17,17,706						
				(177)			
b.		-	d out the internal Rate of Ri he cut-off rate is 15% and 10	eturn (IRR) of a project and co	omment on its		
	Investment = Rs. 1		ile cut-off fate is 15% and 10	om respectively.			
	Cash Inflows for:	1,00,000					
	1st year = Rs.30,0	00					
	2nd year = Rs.30,0						
	3rd year = Rs.40,000, and						
	4th year = Rs.45,0	000					
	You are required	to use the	e following discount factors:				
		Year	Discount Factors at 15%	Discount Factors at 16%			
		1	0.869	0.862			
		2	0.756	0.743			
		3	0.658	0.641			
			0.050				
			0.572	0 5 5 2			
		4	0.572	0.552			
		4	0.572	0.552			
	Type answer here	4	0.572	0.552			

	cut on rate	13 1070. Nejt	ect the projec	it as the inn	15 165561	than the cut-off ra	te.						
	ROUGH WO	ORK											
						d Cash Flows	A II I OT (4 CO()						
	Year		nt Factors	Cash Inflo	OWS /	Adjusted CF (15%)	Adjusted CF (16%)						
		15%	16%	20.000			0.5000						
	1	0.869	0.862	30,000		26,070	2,5860						
	2	0.756	0.743	30,000		22,680	22,290						
	3	0.658	0.641	40,000		26,320	25,640						
	4	0.572	0.552	45,000	)	25,740	24,840						
						1,00,810	98,630						
			Discount Fa	ctor (%)	Tota	l Adjusted CF (Rs.)							
			15	5		1,00,810							
			r			1,00,000							
			16 98,630										
	(r-16)/(15-16) = (1,00,000-1,00,810)/(98,630-1,00,810)												
	or, r – 16 = (	(-1)(-1,370)/	'(-2,180) = -0.	62844									
	or, r = 16 – 0.62844 = 15.37156 = 15.37 (approx.)												
		Yo	u are require	d write Sho	rt Notes	on any 4 out of 5.		4 X 3 = 1					
	T							Marks					
a.	Limitations		Curve					3					
	Type answer												
	The following points limiting the useful calls for new greatiens where mechines do not constitute a resistant to the following points is useful calls for new greatiens where mechines do not constitute a resistant to the following points in the fo												
	1. The learning curve is useful only for new operations where machines do not constitute a major part of the production process. It is not applicable to all productions. E.g. new and experienced												
		•	ii process. it	із пос аррії	cable to	an productions. E.	g. new and experienced						
	workmen.  2. The learning curve assumes that the production will continue without any major interruptions.												
	2. The learning curve assumes that the production will continue without any major interruptions.												
	If for any reason the work in interrupted, the curve may be deflected or assume a new slopes  3. Charges other than learning may affect the learning curve. For example, improvement in												
	3. Charges other than learning may affect the learning curve. For example, improvement in facilities, arrangements, and equipment as well as personnel morale and performance may be												
	_	factors influencing the curve. On the other hand, negative developments in employee attitudes											
	facilities,	_	may also affect the curve and reverse or retard the progress of improvement.										
	facilities, factors in	fluencing th		rse or retard	tne pro	ogress of improvem	4. The characteristic 80 percent learning curve as originally obtaining in the air force industry in						
	facilities, factors in may also a	fluencing tha	irve and reve			-							
	facilities, factors in may also a 4. The cha	fluencing th affect the cu aracteristic	irve and reve 80 percent le	earning curve	e as ori	ginally obtaining in	the air force industry in						
	facilities, factors in may also a 4. The cha U.S.A has	fluencing that affect the cuaracteristic is been usuall	irve and reve 80 percent le ly accepted a	earning curve s the percer	e as orig ntage ap	ginally obtaining in							
	facilities, factors in may also a 4. The cha U.S.A has there can	fluencing the affect the cuaracteristic speen usually not be a uni	irve and reve 80 percent le ly accepted a que percenta	earning curve s the percer age which ca	e as orig ntage ap	ginally obtaining in policable to all indu	the air force industry in						
b.	facilities, factors in may also a 4. The cha U.S.A has there cann  Cost Accour	fluencing the affect the cuaracteristic speen usually not be a uni	arve and reve 80 percent le y accepted a que percenta nagement Acc	earning curve s the percer age which ca	e as orig ntage ap	ginally obtaining in policable to all indu	the air force industry in	3					

	An object of cost accounting to find out cost of a product or a service	An object of management accounting is to make available various information to the management for planning and other activities	
	In cost accounting both past and present data are used.	In the normally data are used for future policies and planning.	
	Cost accounting having a narrow scope because mainly it determines the cost	Its scope is very wide, it includes financial account, cost account report to management etc.	
	Cost Accounting is an old method	Management accounting is a modern concept	
	In case of cost accounting, some principles and methods are adopted and from time to time same principles are used	In case of management accounting, for reporting to management no specific rule or principle is adopted	
C.	Zero Working Capital Strategy		3
٠.	Type your answer here		<u> </u>
	Zero working capital is a situation in which there is no ex to be funded. The concept is used to drive down the business, which can also increase the return on investm low levels of working capital since working capital ear companies are now driving working capital to record low are two requirements to implement zero working capital (a) Demand based production where demand based of demanded: fill customer orders, receive supplies, mandone only as needed.  (b) Receivable and payable terms under which credit while payment terms to suppliers must be extended. It cash should be received from customers before it is of means that customer payments are directly funding the would call for a fine balancing act in Financial Manage would get reflected in healthier bottom lines.	level of investment required to operate a ent for shareholdeRs. Management prefers in an extremely low rate of return. Some levels, so called zero working capital. There i.e.  In the reganizations do everything only as they are infacture products and other functions are its granted to customers must be curtailed, leally, the for payment to supplier This essentially the payments to supplier zero working capital	
d.	Significance of Capital Budgeting		3
	Type your answer here Capital Budgeting decisions are considered important for the following:  1. Crucial decisions: Capital budgeting decisions are the firm. So the capital budgeting decisions shout 2. Long-run decisions: The implications of capital period in the future. The consequences of a value of the firm.	e crucial, affecting all the departments of ld be taken very carefully.  budgeting decisions extend to a longer	
	3. Large amount of funds: Capital budgeting dec		

		s such proper care should be exercised to s	see that these	funds are invested in	
	-	ve purchases.			
		dgeting decision cannot be altered easily to si			
		s are committed in a project, they are to be	continued till th	ne end, loss or profit no	
	matter.				
e.	<ul> <li>Scope of Financia</li> </ul>	al Management			3
	Type your answe	-			
		gement today covers the entire gamut of act	ivities and func	tions given below. The	
		is considered to be importantally of the CEO			
	strategic role. H	is responsibilities include:-			
	(i) Estimati	ng the total requirements of funds for a giver	n period;		
	(ii) Raising	funds through various sources, both national	and internation	al, keeping in mind the	
	cost effe	ectiveness;			
	(iii) Investin	g the funds in both long term as well as shor	t term capital n	eeds; (iv) Funding day-	
	to-day v	vorking capital requirements of business;			
	(iv) Collectin	ng on time from debtors and paying to creditor	ors on time;		
	(v) Managii	ng funds and treasury operations;			
		Section D			12 Mark
		u are required to anciver all the guestions in	this section.		
		u are required to answer all the questions in			
	Instructions: Each qu	uestion is followed by a space where you are	required to typ	-	
9.	An Indo-US Con	uestion is followed by a space where you are npany engaged in manufacturing and supply	required to typing goods in the	Indian home market.	
	An Indo-US Con At present it ha	nestion is followed by a space where you are npany engaged in manufacturing and supply is a domestic demand of 2,000 units as a result.	required to typing goods in the	Indian home market.	
	An Indo-US Con At present it ha meet its domes	nestion is followed by a space where you are nearly engaged in manufacturing and supply is a domestic demand of 2,000 units as a resultic demand only.	required to typing goods in the	e Indian home market.	
	An Indo-US Con At present it ha meet its domes There lies a spa	nestion is followed by a space where you are appears and supplying a domestic demand of 2,000 units as a resultic demand only.  The capacity of 3,000 units and surplus productions are capacity of 3,000 units and surplus productions.	required to typing goods in the lit of which it restition capacity, m	e Indian home market. Stricts its production to hay be utilized to meet	
	An Indo-US Con At present it had meet its domest There lies a spa export orders.	nestion is followed by a space where you are appany engaged in manufacturing and supply is a domestic demand of 2,000 units as a resultic demand only.  The capacity of 3,000 units and surplus product the management of the company took surply.	required to typing goods in the lit of which it restition capacity, m	e Indian home market. Stricts its production to hay be utilized to meet	
	An Indo-US Con At present it ha meet its domes There lies a spa export orders. interested forei	nestion is followed by a space where you are appropriate and supplying a domestic demand of 2,000 units as a resultic demand only.  The capacity of 3,000 units and surplus product the management of the company took suggested by the company took suggested by the suggested by the company took suggested by t	required to typing goods in the latest the latest trees trees the latest trees trees the latest trees trees the latest trees trees the latest trees tr	e Indian home market. stricts its production to hay be utilized to meet when they found an	
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	An Indo-US Con At present it ha meet its domes There lies a spa export orders. interested forei	nestion is followed by a space where you are appropriate the new part of the company engaged in manufacturing and supplying a domestic demand of 2,000 units as a result of the company took of 3,000 units and surplus product the management of the company took of supplying the company took of the current production and sale of 2 pow:	required to typing goods in the lit of which it restition capacity, much a decision,000 units for h	e Indian home market. stricts its production to hay be utilized to meet when they found an	
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	An Indo-US Con At present it had meet its domest There lies a spa export orders. interested foreign	prestion is followed by a space where you are in pany engaged in manufacturing and supply is a domestic demand of 2,000 units as a result it demand only.  The capacity of 3,000 units and surplus product. The management of the company took sught buyer for its products. The unit of the current production and sale of 2 pow:  Particulars  Materials  Wages  Factory Overheads:  Fixed  Variable	required to typing goods in the lit of which it restriction capacity, much a decision which a decision which a decision little Rs.  40,000 36,000 12,000 20,000	e Indian home market. stricts its production to hay be utilized to meet when they found an	
	An Indo-US Con At present it had meet its domest There lies a spa export orders. interested foreign	pestion is followed by a space where you are repany engaged in manufacturing and supply is a domestic demand of 2,000 units as a result ic demand only.  The capacity of 3,000 units and surplus product. The management of the company took sugn buyer for its products. The urrent production and sale of 2 pow:  Particulars  Materials  Wages  Factory Overheads:  Fixed  Variable  Administration Overheads (Fixed)	required to typing goods in the lit of which it restriction capacity, much a decision which a decision representation with the literature of the literature	e Indian home market. stricts its production to hay be utilized to meet when they found an	
	An Indo-US Con At present it had meet its domest There lies a spa export orders. interested foreign	prestion is followed by a space where you are in pany engaged in manufacturing and supply is a domestic demand of 2,000 units as a result it demand only.  The capacity of 3,000 units and surplus product. The management of the company took sught buyer for its products. The unit of the current production and sale of 2 pow:  Particulars  Materials  Wages  Factory Overheads:  Fixed  Variable  Administration Overheads (Fixed)  Selling Overheads (Fixed)	required to typing goods in the lit of which it restriction capacity, much a decision which a decision which a decision are little a	e Indian home market. stricts its production to hay be utilized to meet when they found an	
	An Indo-US Con At present it had meet its domest There lies a spa export orders. interested foreign	pestion is followed by a space where you are repany engaged in manufacturing and supply is a domestic demand of 2,000 units as a result ic demand only.  The capacity of 3,000 units and surplus product. The management of the company took sugn buyer for its products.  The current production and sale of 2 pow:  Particulars  Materials  Wages  Factory Overheads:  Fixed  Variable  Administration Overheads (Fixed)  Selling Overheads (Fixed)  Fixed	required to typing goods in the lit of which it resultion capacity, much a decision which a decision with the lit of which and the lit of which with the lit of which it results and which with the lit of which it results and which with the lit of which it results and which with the lit of which it results and which with the lit of which it results and which with the lit of which it results and which with the lit of which it results and which with the lit of which it results and which with the lit of wh	e Indian home market. stricts its production to hay be utilized to meet when they found an	
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	Calculation of Present	Profitability		
	Particulars	Rs.	Rs.	
	Sales (2,000 Articles @ Rs. 80 per article)		1,60,000	
	Less: Marginal Cost:			
	Materials	40,000		
	Wages	36,000		
	Variable Overheads:			
	Factory	20,000		
	Selling and Distribution	16,000		
			1,12,000	
	Contribution		48,000	
	Less: Fixed Overheads			
	Factory	12,000		
	Office	18,000		
	Selling & Distribution	10,000		
			40,000	
	Profit		8,000	
b.	A foreign buyer is interested to place an order for the decide on the following:  (i) Whether the export order should be accepted or not		_	to
b.	decide on the following:  (i) Whether the export order should be accepted or not (ii) What is the minimum price to negotiate with the	based on current idle	e capacity?	
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Indirect Wages	17.00
Other Variable Overheads	10.50
Fixed Overheads	17.50
	70.00

In the past year 10,000 units were produced. It is expected that with suitable repairs the old manual machine can be used indefinitely in future. The repairs are expected to average Rs. 75,000 per year. An equipment manufacturer has offered to accept the old manual machine as a trade in for a new super automatic machine. The new machine would cost Rs.4,25,000 before allowing for Rs.1,10,000 for the old manual machine. The Project costs associated with the new super automatic machine are as follows:

Particulars	Unit Cost (Rs.)
Direct Wages	15.00
Indirect Wages	20.00
Other Variable Overheads	7.00
Fixed Overheads	22.75
	64.75

The fixed overhead costs are allocations for other departments plus the depreciation of the machine. The old manual machine can be sold now for Rs.50,000 in the open market. The new super automatic machine has an expected life of 10 years and salvage value of Rs.25,000 after its useful life. The current income tax rate applicable for XYZ Co. is 50%. For tax purposes cost of the new super automatic machine and the book value of the old manual machine may be depreciated in 10 years. The minimum required rate is 10%. It is expected that the future demand of the product will stay at 10,000 units per year.

The present value of an annuity of Re. 1 for 9 years @ 10% discount factor = 5.759. The present value of Rs.1 received at the end of 10th year @10% discount factor is = 0.386.

a. What will be the Annual Incremental Cash Flow after Tax for Year 1 to Year 9?

3

Type your answer here Rs.1,06,500

#### **ROUGH WORK**

Particulars	Old Manual	Super Automatic	Incremental
	Machine	Machine	Cost
No. of units (units)	10,000	10,000	
Variable Cost per unit (Rs./unit)	52.5	42	
Variable Cost (Rs.)	5,25,000	4,20,000	1, 05,000
Repairs	75,000	NIL	75,000
Depreciation:			
(2,15,000 – 75,000)/20	7,000		
(4,25,000 – 25,000)/10		40,000	
			(33,000)
Total Saving Before Tax			1,47,000
Less: Tax at 50%			73,500
Savings after Tax			73,500
Add: Depreciation			33,000
CIAT			1,06,500

b.	Determine the amount of Net Investment which is required to be made in event of replacing the old manual machine with the new super automatic machine.						
	Decide on whether to replace the old manual machine with the super automatic machine on the						
	basis of NPV method.						
	Type your answer here						
	Net Investment: Rs.3,32,500						
	Decision: Replace old manual machine with the super	automatic machine as the N	let Present V	alue is			
	positive.						
	ROUGH WORK						
	Particulars	Am	Amount (Rs.)				
	Cost of New Super Automatic Machine		4,25,000				
	Less: Exchange price for Old Manual Machine		1,10,000				
			3,15,000				
	Add: Tax on profit on exchange [1,10,000 – 75	,000] x 50%	17,500				
	Net Investment		3,32,500				
	Particulars	Details	Amount	t (Rs.)			
	P.V. of Operating Cash Inflows from Year 1 to Year 9	1,06,500 X 5.759	6,1	13,334			
	P.V. of Cash Inflow for Year 10	(1,06,500 + 25,000) X 0.38	36 5	50,759			
	P.V. of Total Cash Inflow		6,6	54,093			
	Less: Cash Outflow		3,3	32,500			
	Net Present Value		3,3	31,593			
		<u>I</u>		——			

END