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. (Time allotted for Sections A and B shall be limited to a maximum of 50 minutes)

			Section A	50 mmates	20 × 1 = 20
			You are required to answer all the questions. Each question carries 1 mark.		Marks
ins	tru	ctions: E	ach question is followed by 4 Answer choices and only one is correct. You are n	equirea to	
			select the choice which according to you represents the correct answer.		
4	_	N 4			
1.	a.	ivianage	ment accounting relate to:		
		(i)	Recording of accounting data		
		(ii)	Recording of costing data		
		(iii)	Presentation of accounting data	Α	
		(iv)	All of the above		
	b.	Which c	f the following is not a theory of capital structure?		
		(i)	Net income approach		
		(ii)	Net operating income approach		
		(iii)	Weighted average cost of capital	Α	
		(iv)	None of the above		
	c.	Absorpt	ion costing is also known as		
		(i)	Direct costing		
		(ii)	Forward costing		
		(iii)	Full costing	Α	
		(iv)	Partial costing		
	d.	Which o	one of the following is a medium term source of financing?		
		(i)	Public Deposits		
		(ii)	Lease Financing		
		(iii)	Euro Debt Issue		
		(iv)	All of the above	Α	
	e.	Funds f	low Statement reveals the change in between two Balance She	et dates.	
		(i)	Working capital	Α	
		(ii)	Internal capital		
		(iii)	Share capital		
		(iv)	Both (i) & (iii)		
	f.	The ope	rating profit ratio establishes the relationship between operating profit and:		
		(i)	Net sales	Α	
		(ii)	Gross sales		
		(iii)	Average inventory		
		(iv)	Closing inventory		

Mock Test Paper and Model Answers for June2022 Online Examination-Inter/P10-CMFM/S2

g.	The ma	rgin of safety can be increased by		
	(i)	Decreasing selling price		
	(ii)	Decreasing production		
	(iii)	Increasing fixed costs		
	(iv)	Decreasing variable costs	Α	
h.	Return o	on equity is obtained by dividing net profit (after tax) less preference divided by		
	(i)	Equity capital	Α	
	(ii)	Current assets		
	(iii)	Total capital		
	(iv)	Equity capital minus preference capital		
i.	A high s	tock turnover ratio does not mean that the company is:		
	(i)	Buying in small lots		
	(ii)	Efficient and sells quickly		
	(iii)	Buying in big lots and sells slowly	Α	
	(iv)	None of the above		
j.	Standar	d costing helps in :		
	(i)	Measuring efficiency	Α	
	(ii)	Reducing losses		
	(iii)	Controlling prices		
	(iv)	None of these		
	, ,			
k.	Basic sta	andard is established for a :		
	(i)	Short period		
	(ii)	Current period		
	(iii)	Indefinite period	Α	
	(iv)	None of these		
	(,			
I.	The imn	nediate solvency ratio is:		
	(i)	Quick ratio	Α	
	(ii)	Current ratio		
	(iii)	Stocks turns ratio		
		Debtors turnover ratio		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
m.	. When P	/V ratio is 50% and Margin of Safety ratio is 20% the profit on sales is		
-	(i)	40%		
	(ii)	30%		
	(iii)	20%		
	(iv)	10%	Α	
	(17)	10/0	A	
n	FRIT/To	otal Assets ratio is:		
111.	•	Liquidity ratio		
	(i) (ii)	Profitability ratio	A	
	(iii)	Solvency ratio	^	
	· ` '	Turnover ratio		
	(iv)	ועוווטיכו ומנוט		
	The diff	pronce between actual cost and standard cost is known as		
0.		erence between actual cost and standard cost is known as		
	(i)	Variance	Α	
	(ii)	Profit		

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		(iii)	Differential cost		
		(iv)	None of these		
	p.	Capital b	oudgeting refers to the		
		(i)	Demand and supply of capital		
		(ii)	Overall cost of capital		
		(iii)	Managerial technique of planning capital expenditures of the company	Α	
		(iv)	None of the above		
	_	Footom.	and the second and the second second and another second and the second in the second is		
		at	overhead costs under a standard cost system are debited to work in process in	iventory	
		(i)	Normal costs		
		(ii)	Standard costs		
		(iii)	Actual costs		
		(iv)	Both standard and actual costs	Α	
	r.		st is related with:		
		(i)	Current assets		
		(ii)	Fixed assets	A	
		(iii)	Inventory of raw material		
		(iv)	Bank overdraft		
	s.	In which	ch type of cost the depreciation is not included?		
	-	(i)	Imputed cost		
		(ii)	Notional cost		
		(iii)	Out of pocket cost	Α	
		(iv)	Implied cost		
		(11)	mpmen		
		Which o capital?	f the following would be consistent with a conservative approach to financing	working	
		(i)	Financing short-term needs with short-term funds.		
		(ii)	Financing short-term needs with long-term debt.	Α	
		(iii)	Financing seasonal needs with short-term funds.		
		(iv)	Financing some long-term needs with short-term fund		
			Section B You are required to answer all the questions. Each question carries 1 mark.		10 × 2 = 20 Marks
	In	struction	ns: Each question is followed by a space where you are required to type you	answer.	
2.			Financial Leverage?		
			ur answer here The Financial Leverage may be defined as a percentage increa	ise in EPS	
	h		ed with a given percentage increase in the level of EBIT. re the basic functions of management?		
		Туре уо	ur answer here Planning, Organising, Controlling, Decision-making and Staffin	g.	
	c.	What is	known as the difference between the costs of two alternatives?		
		Type yo	ur answer here Differential cost.		
	d.	What is	Margin of Safety?		

-	Type your answer here Margin of Safety is represeven point sales .	sented by exc	ess sales over a	nd above the break-	
e.	. Which level of management is concerned with the	planning and	controlling?		
	Type your answer here Top level management	p.a8 aa			
f	What do you mean by Stock splits?				
'-		a ana alama ti		and the second Page 100	
	Type your answer here Stock splits means splittin into 5 shares of Rs. 20. Stock splits is a tool used by				
g.	. What is Budget Manual?				
	Type your answer here Budget Manual is a cregarding the procedures to be followed at the time			anding instructions	
h.	. What is the significance of standard cost?				
T	Type your answer here Standard cost is a pre-dete	ermined cost v	which shows in a	dvance what each	
1	product should cost under the given situation.				
i.	What is the ratio is used to measure the relationsh to sales?	ip between th	e net profit befo	ore interest and tax	
	Type your answer here Operating profit ratio.				
j.	Given risk-free rate of return = 5%, market return = beta (β)?	= 10%, cost of	equity = 15%, w	hat is the value of	
1	· · (I-) ·				
1	Type your answer here 2				
	Type your answer here 2				12 x /
lı		of 6 question			48
lı a.	Type your answer here 2 Section C You are required to answer any 4 out instructions: Each question is followed by a space w	of 6 question here you are	required to type	e your answer.	48 Mari
	Type your answer here 2 Section C You are required to answer any 4 out anstructions: Each question is followed by a space w	of 6 question here you are	required to type	e your answer.	48 Mari
	Section C You are required to answer any 4 out anstructions: Each question is followed by a space w A company which produces three products furnish Particulars Selling price per unit	of 6 question here you are hes you the fo Product A 200	llowing informa Product B 100	tion for 2021-22:	48 Marl
	Section C You are required to answer any 4 out enstructions: Each question is followed by a space w A company which produces three products furnist Particulars Selling price per unit Profit volume ratio (%)	hes you the fo Product A 200 10	llowing informa Product B 100 15	tion for 2021-22: Product C 75 20	48 Marl
	Section C You are required to answer any 4 out enstructions: Each question is followed by a space w A company which produces three products furnist Particulars Selling price per unit Profit volume ratio (%) Maximum sales potential units	hes you the formula to the second sec	Product B 100 15 20,000	e your answer. tion for 2021-22: Product C 75 20 15,000	48 Marl
	Section C You are required to answer any 4 out enstructions: Each question is followed by a space w A company which produces three products furnist Particulars Selling price per unit Profit volume ratio (%)	hes you the fo Product A 200 10	llowing informa Product B 100 15	e your answer. tion for 2021-22: Product C 75 20	48 Mari
	Section C You are required to answer any 4 out enstructions: Each question is followed by a space w A company which produces three products furnish Particulars Selling price per unit Profit volume ratio (%) Maximum sales potential units Raw material content as % of variable cost The expenses - fixed are estimated at Rs.5,00,000 the three products. Raw material is in short suppling raw materials of the value of Rs. 15,00,000 for the	hes you the form the product A 200 10 30,000 50 0. The company and the company	Product B 100 15 20,000 50 ny uses a single	e your answer. tion for 2021-22: Product C 75 20 15,000 50 raw material in all ta for the supply of	48 Marl
	Section C You are required to answer any 4 out instructions: Each question is followed by a space with a space with structions: Each question is followed by a space with space with space with a space with spac	hes you the form the product A 200 10 30,000 50 0. The company and the company	Product B 100 15 20,000 50 ny uses a single	e your answer. tion for 2021-22: Product C 75 20 15,000 50 raw material in all ta for the supply of	48 Marl
	Section C You are required to answer any 4 out enstructions: Each question is followed by a space w A company which produces three products furnish Particulars Selling price per unit Profit volume ratio (%) Maximum sales potential units Raw material content as % of variable cost The expenses - fixed are estimated at Rs.5,00,000 the three products. Raw material is in short suppling raw materials of the value of Rs. 15,00,000 for the	hes you the form the you are the hes you the form the you the form the you the form the you the you are the you the you are the you are the manufacture.	Product B 100 15 20,000 50 ny uses a single apany has a quore of its product	tion for 2021-22: Product C 75 20 15,000 50 raw material in all ta for the supply of ts to meet its sales	12 × 4 48 Mark

		priority for	prontab	iiicy.				
	Particulars		Α	В		(
	Selling price per unit(Rs)		2	200	100		75	
	contribution			20	15		15	
	variable cost		1	L80	85		60	
	Raw material cost(50%)			90	42.5		30	
	Contribution per rupee o	f material	20/90=	0.2 15/42.5	=0.35	15/30)=0.5	
	· · ·			2				
Stat	Rank ement showing optimum m	ix under giv	ven condi	III	II omputa	ation o	l of profit m	ix:
Stat	Rank ement showing optimum m		ven condi	III	mputa	ation o	I of profit m	ix:
	Rank ement showing optimum m Particulars		A	itions and co	mputa	С	•	ix:
No	Rank ement showing optimum m Particulars of units		1	III itions and co	omputa	-	•	ix:
No cor	Rank Particulars of units ntribution per unit	2,2	A 222.22 20	itions and co	omputa	C 5,000 15	Total	
No cor Tot	Rank ement showing optimum m Particulars of units	2,2	A 222.22	itions and co	omputa	C 5,000	Total	-

b. A company produces and markets industrial containers and packing cases. Due to competition, the company proposes to reduce the selling price. If the present level of profit is to be maintained, indicate the number of units to be sold if the proposed reduction in selling price is:

(a) 5%; (b) 10%; (c) 15%.

2+2+2

2,00,000

The following additional information is available:

No. of units of A = 2,00,000 / 90 = 2222.22 units approximately.

	Rs.	Rs.
Present Sales Turnover (30,000 units)		3,00,000
Variable Cost (30,000 units)	1,80,000	
Fixed Cost	70,000	2,50,000
Net Profit		50,000

Type your answer here

- a) At a Price Reduction of 5% 34,286 units
- b) At a Price Reduction of 10% 40,000 units
- c) At a Price Reduction of 15% 48,000 units

- 1		Calculation of	Contribution		
		Present Conditions		icipated Conditi	
			5% Reduction	10% Reduction	15% Reduction
		Rs.	Rs.	Rs.	Rs.
	Selling Price per unit	10.00	9.50	9.00	8.50
	Less: Variable cost per unit (Rs. 1,80,000/30,000 units)	6.00	6.00	6.00	6.00
	Contribution per unit	4.00	3.50	3.00	2.50
	(iv) At a Price Reduction of 15%	S = (Rs 70 000 + Rs	50.000)/Rs. 2.50	0 = 48,000 units	
			•	· · · · · · · · · · · · · · · · · · ·	
. a	The standard costs of a certain	chemical mixture	•		
. a	The standard costs of a certain 40% Material A at Rs. 200 per t	chemical mixture	•		
. a	The standard costs of a certain	chemical mixture on on	•		
. a	The standard costs of a certain 40% Material A at Rs. 200 per t 60% Material B at Rs. 300 per t	chemical mixture on on	•		
. a	The standard costs of a certain 40% Material A at Rs. 200 per t 60% Material B at Rs. 300 per t A standard loss of 10% is expec	chemical mixture on on ted in production	s:		
. a	The standard costs of a certain 40% Material A at Rs. 200 per t 60% Material B at Rs. 300 per t A standard loss of 10% is expect During a period they used	chemical mixture on on ted in production at of Rs.180 per to	n		
. a	The standard costs of a certain 40% Material A at Rs. 200 per t 60% Material B at Rs. 300 per t A standard loss of 10% is expect During a period they used 90 tons of Material A at the cost 110 tons of Material B at the cost The weight produced is 182 tor	chemical mixture on on ted in production st of Rs.180 per to ost of Rs. 340 per t	n on ion.		
a	The standard costs of a certain 40% Material A at Rs. 200 per t 60% Material B at Rs. 300 per t A standard loss of 10% is expect During a period they used 90 tons of Material A at the cost 110 tons of Material B at the cost The weight produced is 182 tor Calculate and present Material C	chemical mixture on on ted in production st of Rs.180 per to ost of Rs. 340 per t	n on ion.		
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. a	The standard costs of a certain 40% Material A at Rs. 200 per t 60% Material B at Rs. 300 per t A standard loss of 10% is expect During a period they used 90 tons of Material A at the cost 110 tons of Material B at the cost The weight produced is 182 tor Calculate and present Material C Type your answer here A. Material yield Variance = Rs.5	chemical mixture on on ted in production st of Rs.180 per to est of Rs. 340 per t as of good product cost, price, usage,	n on ion.		
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Rough Work

Material	St	andard d	ata		Actual da	ta
	Quantity	Rate	Amount	Quantity	Rate	Amount
	(Kg.)	(Rs.)	(Rs.)	(Kg.)	(Rs.)	(Rs.)
X	80	200	16,000	90	180	16,200
Υ	120	300	36,000	110	340	37,400
	200		52,000	200		53,600
Less: loss	20			18		
	180		52,000	182		53,600

Computation of SQ:

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SQ = (RSQ for that product/RSQ for all product) \times AQ for that product
For A = (80/180) \times 182
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= 80.88 units

For B = $(120/80) \times 182$

= 121.33

Where

Material A SQSP (1) =
$$80.88 \times 200 = 16,176$$

RSQSP (2) =16,000

 $AQSP(3) = 90 \times 200 = 18,000$

AQAP(4) = 16,200

Material B SQSP (1) = $121.33 \times 300 = 36,400$

RSQSP (2 = 36,000)

 $AQSP(3) = 110 \times 300 = 33,000$

AQAP(4) = 37,400

Total SQSP (1) = 52,578 (16,176 + 36400)

Total RSQSP (2) = 52,000 (16000 + 36000)

Total AQSP (3) = 51,000(18000 + 31000)

Total AQAP (4) = 53,600(16200 + 37400)

- (1) SQSP = Standard cost of Standard Material
- (2) RSQSP = Revised Standard Cost of Material
- (3) AQSP = Standard Cost of Actual Material
- (4) AQAP = Actual Cost of Material

Computation of Required Variances

- a. Material yield Variance = (1) (2) = Rs.578 (F) [Rs. (52,578 52,000)]
- B. Material Mix Variance = (2) (3) = 1,000 (F) [Rs. (52,000 51,000)]
- C. Material usage Variance = (1) (3) = 1,578 (F) [Rs. (52,578 51,000)]
- D. Material Price Variance = (3) (4) = 2,600 (A) [Rs. (51,000 53,600)]
- E. Material Cost Variance = (1) (4) = 1,022 (A) [Rs. (52,578)

	b.	From the	below-mentioned	data calculate	various sales	variances
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Standard			Actual		
Quantity	S.P.	Total	Quantity	A.P.	Total
A – 1600	24	38,400	A – 2400	20	48,000
B - 1400	18	25,200	B - 1400	18	25,200
C - 600	12	7,200	C – 750	14	10,500
D - 400	15	6,000	D - 450	14	6,300
4000		76,800	5000		90,000

- a. Sales Sub-Volume Variance = Rs. 19,200 (F)
- b. Sales Mix Variance = Rs. 2,550 (F)
- c. Sales Volume Variance = Rs. 21,750 (F)
- d. Sales Price Variance = Rs. 8,550 (A)
- e. Sales Volume Variance = Rs. 13,200 (F)

Rough Work

Material	AQAP(1)(Rs.)	AQSP(2)(Rs.)	RSQSP(3)(Rs.)	SQSP(4)(Rs.)
Α		2400 x 24	2000 x 24	
В		1400 x 18	1750 x 18	
С		750 x 12	750 x 12	
D		450 x 15	500 x 15	
Α	48,000	57,600	48,000	38,400
В	25,200	25,200	31,500	25,200
С	10,500	9,000	9,000	7,200
D	6,300	6,750	7,500	6,000
	90,000	98,550	96,000	76,800

RSQ = (SQ for that product /SQ for all products) \times AQ for all products

- e.g. = $1,600/4,000 \times 5,000 = 2,000$ units
- 1. AQAP = Actual Sales = Rs. 90,000
- 2. AQSP = Actual Quantity of Sales at Standard Prices = Rs. 98,550
- 3. RSQSP = Revised Standard on Budgeted Sales = Rs. 96,000
- 4. SQSP = Standard or Budgeted Sales Rs. 76,800
- a. Sales Sub-Volume Variance (3-4) Rs. 19,200 (F)
- b. Sales Mix Variance (2-3) Rs. 2,550 (F)
- c. Sales Volume Variance (2 -4) Rs. 21,750 (F)
- d. Sales Price Variance (1-2) Rs. 8,550 (A)
- e. Sales Volume Variance (1-4) Rs. 13,200 (F)

c. What is Profit variance?

2

5

- 1	i ype yo	ur answer here		
	Profit V	ariance is the difference between budgeted	profit and actual profit. This represents the	
		ice between budgeted profit and actual pro	fit. The formula is:	
_		riance = Budgeted Profit – Actual Profit		
a.	State the	e differences between the fixed budget and	the flexible budget.	4
	Type yo	our answer here		
		Fixed Budget	Flexible Budget	
		It does not change with actual volume		
		activity achieved. Thus it is known as rigid inflexible budget.		
			not rigid.	
		It operates on one level of activity a		
		under one set of conditions. It assumes the	,	
		there will be no change in the prevails conditions, which is unrealistic.	ing	
		Here as all costs like – fixed, variable a	nd Here analysis of variance provides	
		semi-variable are related to only one le		
		of activity so variance analysis does not g		
		useful information.		
		If the budgeted and actual activity lev	els Flexible budgeting at different levels	
		differ significantly, then the aspects like co		
		ascertainment and price fixation do not g	· · · · · · · · · · · · · · · · · · ·	
		a correct picture.	selling price and tendering of	
			quotations	
b.	the lea	rning effect as new products are introduced	rocess because it finds it necessary to qualify	
b.	the lead Substant An order The first the 14 company	rning effect as new products are introduced ntial product changes occur and result in the er for 30 units of a new product has been re at unit required 40 direct labour hours and a units. The production manager expects an 8	rocess because it finds it necessary to qualify e need for retraining. ceived by ABC. So far, 14 have been completed; total of 240 direct labour has been recorded for 0% learning effect for this type of work. The rect costs attributed to the centre in which the	
b.	the lea Substan An orde The firs the 14 compan unit is n	rning effect as new products are introduced ntial product changes occur and result in the er for 30 units of a new product has been rest unit required 40 direct labour hours and a units. The production manager expects an 8 my uses standard absorption costing. The dimanufactured and its direct materials costs	process because it finds it necessary to qualify e need for retraining. ceived by ABC. So far, 14 have been completed; total of 240 direct labour has been recorded for 0% learning effect for this type of work. The rect costs attributed to the centre in which the are as follows:	
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b.	the lead Substant An order The first the 14 companion unit is reported to the companion of	rning effect as new products are introduced ntial product changes occur and result in the er for 30 units of a new product has been rest unit required 40 direct labour hours and a units. The production manager expects an 8 my uses standard absorption costing. The direct materials costs Material Jabour	rocess because it finds it necessary to qualify e need for retraining. ceived by ABC. So far, 14 have been completed; total of 240 direct labour has been recorded for 0% learning effect for this type of work. The rect costs attributed to the centre in which the are as follows: 30.00 per unit. 6.00 per hour	
b.	the lead Substant An order The first the 14 companion unit is reported by the companion of	rning effect as new products are introduced ntial product changes occur and result in the er for 30 units of a new product has been rest unit required 40 direct labour hours and a units. The production manager expects an 8 my uses standard absorption costing. The direct materials costs Material labour le overhead overhead	process because it finds it necessary to qualify eneed for retraining. ceived by ABC. So far, 14 have been completed; total of 240 direct labour has been recorded for 0% learning effect for this type of work. The rect costs attributed to the centre in which the are as follows: 30.00 per unit. 6.00 per hour 0.50 per direct labour hour 6,000 per four-week operating period	
	the lead Substant An order The first the 14 company unit is reported by the substant of the su	rning effect as new products are introduced ntial product changes occur and result in the er for 30 units of a new product has been rest unit required 40 direct labour hours and a units. The production manager expects an 8 my uses standard absorption costing. The direct materials costs manufactured and its direct materials costs. Material labour le overhead overhead overhead overhead et et allowances account for 25% of total avail apany usually quotes a four-week delivery purequired to:	enced for retraining. ceived by ABC. So far, 14 have been completed; total of 240 direct labour has been recorded for 0% learning effect for this type of work. The rect costs attributed to the centre in which the are as follows: 30.00 per unit. 6.00 per hour 0.50 per direct labour hour 6,000 per four-week operating period veek, eight hours per day. Personal and other able time. eriod for orders. eriod for orders. ling effect is a reasonable one in this case, by	2
	the lead Substant An order The first the 14 company unit is not be a company of the company of t	rning effect as new products are introduced ntial product changes occur and result in the er for 30 units of a new product has been rest unit required 40 direct labour hours and a units. The production manager expects an 8 my uses standard absorption costing. The direct manufactured and its direct materials costs. Material labour le overhead er ten direct employees working a five-day where allowances account for 25% of total avail apany usually quotes a four-week delivery perequired to: In pany usually quotes a four-week delivery perequired to: In pany usually quotes a four-week delivery perequired to: In pany usually quotes a four-week delivery perequired to: In pany usually quotes a four-week delivery perequired to: In pany usually quotes a four-week delivery perequired to: In the cumulative average direct labour times the cumulative average direct labour times.	process because it finds it necessary to qualify eneed for retraining. ceived by ABC. So far, 14 have been completed; total of 240 direct labour has been recorded for 0% learning effect for this type of work. The rect costs attributed to the centre in which the are as follows: 30.00 per unit. 6.00 per hour 0.50 per direct labour hour 6,000 per four-week operating period veek, eight hours per day. Personal and other able time. eriod for orders. eriod for orders. ling effect is a reasonable one in this case, by e per unit (productivity)	
	the lead Substant An order The first the 14 company unit is reported to the fixed of the company	rning effect as new products are introduced ntial product changes occur and result in the er for 30 units of a new product has been rest unit required 40 direct labour hours and a units. The production manager expects an 8 my uses standard absorption costing. The direct materials costs manufactured and its direct materials costs. Material labour le overhead overhead overhead overhead et et allowances account for 25% of total avail apany usually quotes a four-week delivery purequired to:	process because it finds it necessary to qualify eneed for retraining. ceived by ABC. So far, 14 have been completed; total of 240 direct labour has been recorded for 0% learning effect for this type of work. The rect costs attributed to the centre in which the are as follows: 30.00 per unit. 6.00 per hour 0.50 per direct labour hour 6,000 per four-week operating period veek, eight hours per day. Personal and other able time. eriod for orders. eriod for orders. ling effect is a reasonable one in this case, by e per unit (productivity)	

Type your answer here Total time taken to produce 14 units **Rough Work** $Y = ax^b$ $Y = 40(14)^0.322$ = 17.14 (average time) Total time = $17.14 \times 14 = 239.96 = 240$ hours It is true that the learning ratio 80% is effective. (ii) Calculate the number of direct labour hours likely to be required for an expected second order of 20 2 Type your answer here 166.1 hours 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)Total time for 30 units = $13.38 \times 30 = 401.4$ hours Total time for 50 units = $11.35 \times 50 = 567.5$ hours Time taken for 20 units from 31 to 50 units (567.5 - 401.4) = 166.1 hours The Balance Sheets of a XYZ Ltd. as on 31st March, 2021 and 2022 are given below: c. Liabilities 31-03-21 31-03-22 31-03-21 31-03-22 Assets **Equity Share capital** 14,20,000 | 19,50,000 | **Fixed Assets** 38,00,000 45,80,000 Capital Reserve 52.000 Less: 11,80,000 14,20,000 Depreciation General Reserve 8,64,000 9,60,000 26,20,000 31,60,000 Profit & Loss A/c 2,64,000 3,72,000 4,50,000 3,75,400 Investment 9% Debentures 9,72,000 6,60,000 Sundry Debtors 12,20,000 13,20,000 Sundry Creditors 5,63,000 6,20,000 1,36,000 1,75,000 Stock 25,000 35,000 Cash in hand 29,000 38,000 Bills Payable Proposed Dividend 25,000 36,000 **Preliminary** 1,08,000 40,000 **Expenses** Provision for tax 4,30,000 4,05,000 Unpaid dividend 18,400 **TOTAL** 45,63,000 51,08,400 **TOTAL** 45,63,000 | 51,08,400 Additional Information: During the year ended 31st March, 2022 the company: 1. Sold a machine for Rs.1,16,000; the cost of the machine was Rs.2,50,000 and depreciation provided on it was Rs.96,000. 2. Provided Rs. 4, 36,000 as depreciation on fixed assets. 3. Sold some investment and profit credited to capital reserve. 4. Redeemed 35% of the debenture @ Rs. 105. 5. Decided to write off fixed assets costing Rs. 65,000 on which depreciation amounting to Rs.45,000 has been provided. 6. Debentures redeemed at the beginning of the year and issued at the end of the year. You are required to calculate the cash flow from the operating activities.

Particulars A. Cash flow from Operating Activities Profit and Loss A/c(372000-264000)	Rs.	Rs.		
Profit and Loss A/c(372000-264000)				
		10,80,000		
Adjustments:		2,22,22		
Increase in general reserve	96,000			
Depreciation	4,36,000			
Provision for tax	4,05,000			
Loss on sale of machine	38,000			
Premium on redemption of debentures	17,010			
Proposed dividend	36,000			
Preliminary expenses written off	68,000			
Fixed assets written off	20,000			
Interest on debentures	56,862	11,72,872		
Funds from operations		12,80,872		
Increase in sundry creditors	57,000			
Increase in bills payable	10,000			
	67,000			
Increase in sundry debtors				
Increase in stock	(1,00,000)	(7,20,000)		
Cash before tax		1,20,8872		
-Tax paid		4,30,000		
Cash inflow from operating activity		7,78,872		
Based on the following information, you are required	d to determine the ma	rket value of	equity	4
shares of AB India Ltd. as per Gordon's model:				
Earnings of the company Rs.20,00,000				
Dividend paid Rs.16,00,000				
Number of shares outstanding Rs. 4,00,000				
Price earnings ratio 8				
Rate of return on investment 0.15				
Are you satisfied with the current dividend policy of the	he company? If not, w	hat should be	the	
optimal dividend payout ratio in this case?				
Гуре your answer here				
As k is the reciprocal of price earning ratio, $k = 1/8 = 0$).125			
E =Total Earnings/no of shares outstanding				
= 20,00,000/4,00,000 = Rs. 5				
D = Dividend paid/No. of shares outstanding				

B = 1-D/E					
= 1- 1 / ₅					
= ½-0.2					
P = E(1-b)/K-br					
= 5(1-0.2)/0.125-0.2(0.15) = 42.11 approx					
No, we are not satisfied with the curre					
Since $r = (-0.15) > k = (-0.125)$, AB Indi		as a growth company Accor	ding to		
Gordon's model, the optimal dividend			_		
case of AB India Ltd., the optimal divid		The state of the s	,,		
	1 /				
are sold for Rs.14 per unit; the Cost Acc Rs.9 per unit. Calculate the degree of o units. What do you infer from the degree	perating leverage for see of operating levera	sales volume of 2,500 units an	nd 3,000		
and 3,000 units and their difference if any? .					
Type your answer here					
Statement of Operating Leverage Particulars	2,500 Units	3,000 Units			
Particulars		3,000 Offics			
Caloc @ Dc 14 nor unit	25 000	42.000			
Sales @ Rs. 14 per unit	35,000	42,000			
Variable cost @ Rs. 149 per unit	22,500	27,000			
Variable cost @ Rs. 149 per unit Contribution	22,500 12,500	27,000 15,000			
Variable cost @ Rs. 149 per unit Contribution Fixed cost Rs. [2,000 × (14 - 9)]	22,500 12,500 10,000	27,000 15,000 10,000			
Variable cost @ Rs. 149 per unit Contribution Fixed cost Rs. [2,000 × (14 - 9)] EBIT Operating Leverage =	22,500 12,500	27,000 15,000			
Variable cost @ Rs. 149 per unit Contribution Fixed cost Rs. [2,000 × (14 - 9)] EBIT	22,500 12,500 10,000 2,500	27,000 15,000 10,000 5,000			
Variable cost @ Rs. 149 per unit Contribution Fixed cost Rs. [2,000 × (14 - 9)] EBIT Operating Leverage = Contribution /PBT Operating Leverage At the sales volume of 3000 units, the profit of Rs. 2,500 (sales volume of 2,500 to profit has increased by 100% i.e., 5 leverage is 3 times. If there is change	22,500 12,500 10,000 2,500 12,500/2,500 5 c operating profit is Rs. 500 units) because of tunits. Hence increase of times of 20%. At the in sales from the level	27,000 15,000 10,000 5,000 15,000 /5,000 3 5,000 which is double the ophe fact that the operating level of 20% in sales volume, the operation of 20% in sales volume.	erage is perating perating		
Variable cost @ Rs. 149 per unit Contribution Fixed cost Rs. [2,000 × (14 - 9)] EBIT Operating Leverage = Contribution /PBT Operating Leverage At the sales volume of 3000 units, the profit of Rs. 2,500 (sales volume of 2,500 to profit has increased by 100% i.e., 5	22,500 12,500 10,000 2,500 12,500/2,500 5 c operating profit is Rs. 500 units) because of tunits. Hence increase of times of 20%. At the in sales from the level	27,000 15,000 10,000 5,000 15,000 /5,000 3 5,000 which is double the ophe fact that the operating level of 20% in sales volume, the operation of 20% in sales volume.	erage is perating perating		

A capital structure will be considered to be appropriate if it possesses following features:

- (i) Profitability: The capital structure of the company should be most profitable. The most profitable capital structure is one that tends to minimize cost of financing and maximize earnings per equity share.
- (ii) Solvency: The pattern of capital structure should be so devised as to ensure that the firm does not run the risk of becoming insolvent. Excess use of debt threatens the solvency of the company. The debt content should not, therefore, be such that which increases risk beyond manageable limits.
- (iii) Flexibility: The capital structure should be flexible to meet the requirements of changing conditions. Moreover, it should also be possible for the company to provide funds whenever needed to finance its profitable activities.
- (iv) Conservatism: The capital structure should be conservative in the sense that the debt content in the total capital structure does not exceed the limit which the company can bear. In other words, it should be such as is commensurate with the company's ability to generate future cash flows.
- (v) Control: The capital structure should be so devised that it involves minimum risk of loss of control of the company.
- 7. a. S Ltd. sells goods in domestic market at a gross profit of 25 percent, not counting on depreciation as a part of the 'cost of goods sold'. Its estimates for next year are as follows:

Amount (Rs. in Lakhs)

6

Sales - Home at 1 month's credit		
Exports at 3 months' credit, selling price 10 percent below home price		
Materials used (suppliers extend 2 months' credit)	450	
Wages paid, V2 month in arrears	360	
Manufacturing expenses, paid 1 month in arrears	540	
Administrative expenses, paid 1 month in arrears	120	
Sales promotion expenses (payable quarterly- in advance)	60	
Income - tax payable in 4 instalments of which one falls in the next financial year	150	

The company keeps 1 month's stock of each of raw materials and finished goods and believes in keeping Rs. 20 lakh as cash. Assuming a 15 percent safety margin, ascertain the estimated Working Capital requirement of the company (ignore work -in-process).

Type answer here

Working Capital requirement of the company is Rs. 327.75 Lakhs

Rough Work

Statement showing determination of Working Capital

Current assets	(Rs.)	Workings (Amount in Rs. lakhs)
Cash	20.00	
Raw Material	37.50	(450 lakhs / 12)
Finished Goods	122.50	(1,470 lakhs / 12)
Debtors Domestic market	100.00	(1,200 / 12)
Export market	135.00	(540 x 3 / 12)
Sales promotion expense	15.00	3 (60 lakhs x 3 / 12)
Total Current Assets (A)	430.00	

Current Liabilities	(Rs.)
Raw Materials (450 x 2 / 12)	75.00
Wages (360 / 24)	15.00
Manufacturing expenses (540 /12)	45.00
Administration expenses (120/12)	10.00
Total Current Liabilities (B)	145.00
Net Current Assets	285.00
Add: Safety margin @ 15%	42.75
Working Capital Requirement	327.75

Working notes:

1. Cost of Production

	Rs. in lakhs
Material used	450
Wages paid	360
Manufacturing expense	540
Administration expense	120
Total	1470

2. Tax aspect is ignored as it is to be paid out of profits.

b. A chemical company is considering replacing an existing machine with one costing Rs. 65,000. The existing machine was originally purchased two years ago for Rs. 28,000 and is being depreciated by the straight line method over its seven-year life period. It can currently be sold for Rs. 30,000 with no removal costs. The new machine would cost Rs. 10,000 to install and would be depreciate over five years. The management believes that the new machine would have a salvage value of Rs. 5,000 at the end of year 5. The management also estimates an increase in net working capital requirement of Rs. 10,000 as a result of expanded operations with the new machine. The firm is taxed at a rate of 55% on normal income and 30% on capital gains. The company's expected after-tax profits for next 5 years with existing machine and with new machine are given as follows:

3+3

	3	9		
Expected after-tax profits				
Year	With existing machine	With new machine		
	(Rs.)	(Rs.)		
1	2,00,000	2,16,000		
2	1,50,000	1,50,000		
3	1,80,000	2,00,000		
4	2,10,000	2,40,000		
5	2,20,000	2,30,000		

- (i) Calculate the net investment required by the new machine.
- (ii) If the company's cost of capital is 15%, determine whether the new machine should be purchased.

Appraisal of replacement decision under NPV method

Step 1:

Calculation of present value of net investment required

	(Rs.)	(Rs.)
Cost of new asset		65,000
Add: Installation cost		10,000
		75,000
Add: Additional WC		10,000
		85,000
Less: Sale proceeds of old machine	30,000	
Less: Tax [8,000 x 55/100 + 2000 x 30/100]	5,000	25,000
Net Investment required		60,000

Step 2:

Calculation of Present Value of Incremental Operating cash inflows for 5 years

Year	CIAT (PAT +	New	Incremental	PV factor at	Present
	Dep)			15%	Value
1	2,04,000	2,30,000	26,000	0.8696	22,609
2	1,54,000	1,64,000	10,000	0.7561	7,561
3	1,84,000	2,14,000	30,000	0.6575	19,725
4	2,14,000	2,54,000	40,000	0.5718	22,872
5	2,24,000	2,44,000	20,000	0.4972	9,944
PV of cash inflows for 5 years 82,711					82,711

Step 3:

Calculation of PV of terminal cash inflow

	(Rs.)
Salvage value of asset [No tax because book value and	5,000
salvage value are equal]	
Working capital recovered [100% recovered]	10,000
Terminal cash inflows	15,000

Its PV at the end of 5th year = $15,000 \times 0.4972 = 7,458$

Step 4:

Calculation of NPV

PV of total cash inflows [82,711 + 7,458] = 90,169 (-) Outflow = 60,000 NPV = 30,169

Comment: As NPV is positive, it is advised to replace.

Note 1:

Depreciation for old Machine = 28,000 / 7 = Rs. 4,000

Depreciation for new Machine = 65,000 + 10,000 - 5,000/ 5 = Rs. 14,000

8.		You are required write Short Notes on any 4 out of 5.	4 × 3 = 12
			Marks
	a.	Limitations of learning curve	

The following points limiting the usefulness of learning curves should be noted:-

- 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 workmen.
- 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 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 may also affect the curve and reverse or retard the progress of improvement.
- 4. The characteristic 80 percent learning curve as originally obtaining in the air force industry in U.S.A has been usually accepted as the percentage applicable to all industries. Studies show that there cannot be a unique percentage which can be universally applied.

b. Cost Accounting vs Management Accounting

Type your answer here

Cost Accounting	Management Accounting
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

Type your answer here

Zero working capital is a situation in which there is no excess of current assets over current liabilities to be funded. The concept is used to drive down the level of investment required to operate a business, which can also increase the return on investment for shareholders. Management prefers low levels of working capital since working capital earns an extremely low rate of return. Some companies are now driving working capital to record low levels, so called zero working capital. There are two requirements to implement zero working capital i.e

(a) Demand based production where demand based organizations do everything only as they are demanded: fill customer orders, receive supplies, manufacture products and other functions are done only as needed.

	Section D You are required to answer all the questions in this section	12 Mark
	as dividend policy, capitalization of profits, making the rights issue, etc.	
	(iv) Other financial decisions: Cost of capital is also useful in making such other financial decisions	
	if profit is greater than the cost of capital the performance nay be said to be satisfactory.	
	of top management. The actual profitably is compared with the actual cost of capital of funds and	
	(iii) Evaluation of final Performance: Cost of capital is used to evaluate the financial performance	
	structure.	
	(ii) Capital structure decisions: An optimal capital is that structure at which the value of the firm is maximum and cost of capital is the lowest. So, cost of capital is crucial in designing optimal capital	
	Present Value method for investment proposals. So, it is very useful in capital budgeting decisions. (ii) Capital structure decisions: An entimal capital in that structure at which the value of the firm is	
	(i) Capital budgeting decisions: The cost of capital is used for discounting cash flows under Net	
	following areas:	
	The Cost of Capital is very important in Financial Management and plays a crucial role in the	
	Type your answer here	
e.	Importance of cost of capital.	
	inadequate.	
	Thus, profit maximization as an objective of Financial Management has been considered	
	(iv) It is narrow concept at the cost of social and moral obligations.	
	(iii) Profit in itself is a vague concept and means differently to different prople.	
	(ii) It Ignores the risk factors associated with profit.	
	Arguments against Profit Maximization : (i) It leads to exploitation of workers and consumers.	
	efficiency and economic prosperity.	
	(iv) Profit maximization is justified on the grounds of rationality as profits act as a measure of	
	required.	
	(iii) The main source of finance for growth of a business is profit. Hence, profit maximization is	
	(ii) Future is uncertain. A firm should earn more and more profit to meet the future contingencies.	
	maximization.	
	(i) When profit earning is the main aim of business the ultimate objective should be profit	
	Arguments in favour of Profit Maximization :	
	(i) Profit acts as a measure of efficiency and(ii) It serves as a protection against risk.	
	Profit Maximization is the main objective of business because:	
	Type your answer here	
d.	Profit maximization as an objective of Financial Management.	
	reflected in healthier bottom lines.	
	fine balancing act in Financial Management, and the success in this endeavour would get	
	payments are directly funding the payments to suppliers. Zero working capital would call for a	
	customers before it is due for payment to suppliers. This essentially means that customer	
	while payment terms to suppliers must be extended. Ideally, cash should be received from	

A company has a number of manually operated machines that were used to make a product that the firm has phased out of its operations. The products with long life cycles were considered company's "cash cows" but they were becoming a thing of the past. The product had predictably failed to keep up with a market that demanded more for less. Heavily dependent on manual machines, this product had also faced a number of issues due to more time taken to finish the products.

An older model of machine of the company had a history of crashes which led to a supply disruption of the product. This added to the woes of the product, and it lost its lead to its competitors who wasted no time in snapping up the customers. The revenue stream from the product soon became a trickle till it finally stopped in 2020, when the lockdowns due to Covid-19 sounded a death knell for the long-suffering product.

Now the company. is considering replacing a manually operated old machine with a fully automatic new machine. The old machine has been fully depreciated for tax purposes but has a book value of Rs.2,40,000 on 31st March 2021. The machine has begun causing problems with breakdowns and it cannot fetch more than Rs. 30,000 if sold in the market at present. It will have no realizable value after 10 years. The company has been offered Rs. 1,00,000 for the old machine as a trade-in on the new machine which has a price (before allowance for trade-in) of Rs. 4,50,000. The expected life of the new machine is 10 years with a salvage value of Rs. 35,000.

Further, the company follows a straight line depreciation method but for tax purpose, written down value method depreciation @ 7.5% is allowed.

You have been appointed as a financial advisor to the company recently. The Board members of the company have asked you to quantitatively support your observations and suggest to the company whether the new automatic machine should be bought, or the old equipment modified. Keep in mind, the older it gets, the higher the cost of maintenance is outdated, old manually operated equipment often results in wasted time and less productivity in the workplace.

Given below are the expected sales and costs from both old and new machine.

Particulars	Old Machine (Rs.)	New Machine (Rs.)
Sales	8,10,000	8,10,000
Material cost	1,80,000	1,26,250
Labour cost	1,35,000	1,10,000
Variable overhead	56,250	47,500
Fixed overhead	90,000	97,500
Depreciation	24000	41500
PBT	3,24,750	3,87,250
Tax@30%	97,425	1,16,175
PAT	2,27,325	2,71,075

From the above information, analyse whether the old machine should be replaced or not if the required rate of return is 10%? Ignore capital gain tax.

Given:

PV factor @10%.

Year	1	2	3	4	5	6	7	8	9	10
PVF	0.909	0.826	0.751	0.683	0.621	0.564	0.513	0.467	0.424	0.386

a. Calculate the Base for depreciation/ Cost of New Machine.

2

		F	Amount (in Rs.)									
Purc	hase price	of new m	4,50,000)								
Less	Sale price	1,00,000)									
TOTA	TOTAL 3,50,000											
1017						3,30,000						
Calculat	o NDV of	cash flows										
		r here 3,8										
Rough \		,-										
	Calculation of NPV											
Year	PVF	PBTD	Dep	PBT	Tax	Cash	PV of cash					
l car	@10	1313	@ 7.5%	101	@30%	inflow	Inflow					
	%											
	1	2	3	4	5= (4) X	6= (4)-	(7) = (6) x					
					30%	(5)+(3)	(1)					
1	0.909	80,000	26,250	53,750	16,125		58,062.38					
2	0.826	80,000	24281.2	55,718.75	16,715.63	63,284.34	52,272.89					
3	0.751	80,000	22,460.1	57,539.84	17,261.95	62,738.05	47,116.27					
4	0.683	80,000	20,775.6	59,224.36	17,767.31	62,232.69	42,504.93					
5	0.621	80,000	19,217.4	60,782.53	18,234.76	61,765.24	38,356.21					
6	0.564	80,000	17,776.1	62,223.84	18,667.15	61,332.85	34,591.73					
7	0.513	80,000	16,442.9	63,557.05	19,067.12	60,932.85	31,258.57					
8	0.467	80,000	15,209.7	64,790.27	19,779.30	60,562.92	28,282.88					
9	0.424	80,000	14,069.0	65,931.00	19,437.08	60,220.70	25,533.58					
10	0.386	80,000	13,013.8	66,986.18	20,095.85	59,904.15	23,123					

The unforeseen pandemic of Covid-19 brought about quite a few changes in the consumption of the consumer goods in India. Millions of fitness and food videos shared on various social media platforms are a testament to this trend. This shift was also reflected in the home appliances that they purchased during the past year.

In addition to that, a momentous growth in the purchase of electronic devices such as laptops, mobiles and headphones among others during the past year was noticed. People also looked for more efficient devices as work-from-home became the new normal. The focus was shifted to elearning also. As more and more people settled in their routines, they looked for automating their home appliances in a bid to save time. The demands for laptops and tablets in the past year have seen growth of nearly 200% on a pre and post lockdown basis. Office essentials such as printers have seen a 75% increase in searches for various kinds of printers (inkjet, ink tank and lasers).

The ABC company producing electronic products has three divisions viz. Division A, Division B and Division C. Each of which makes a different product: laptops, mobiles, cameras respectively. Due to unforeseen circumstances in the market, although two divisions are earning but the third division is not earning as per the expectations. So the company is thinking of closing down the third unit producing cameras. There is no possibility of reducing fixed cost. As a financial advisor of ABC company what will you suggest?

Particulars	Laptop	Mobiles	Camera
Sales	1,10,000	60,000	85,000
Direct material	12,000	6,000	12,000
Direct labour	5,500	6,000	22,500
Direct expenses	12,000	6,000	27,000
Fixed cost	26,000	13,000	26,000
	55,500	31,000	87,500

3

3

a. Prepare a statement showing contribution of all divisions before closing down division C.

Type your answer here	

Particulars	Laptop	Mobiles	Camera	Total
Sales	1,10,000	60,000	85,000	2,55,000
Variable cost:			ľ	
Direct material	12,000	6,000	12,000	30,000
Direct labour	5,500	6,000	22,500	34,000
Direct expenses	12,000	6,000	27,000	45,000
Total variable cost	29,500	18,000	61,500	1,09,000
Contribution(sales-variable cost)	80,500	42,000	23,500	1,46,000

b. Prepare a statement showing contribution of all divisions after closing down division C.

Particulars	Laptop	Mobile	Total	
Sales	1,10,000	60,000	1,70,000	
Variable cost:				
Direct material	12,000	6,000	18,000	
Direct labour	5,500	6,000	11,500	
Direct expenses	12,000	6,000	18,000	
Total variable cost	29,500	18,000	47,500	
Contribution(sales-variable cost)	80,500	42,000	1,22,500	

END