

**INTERMEDIATE EXAMINATION
Syllabus 2016**

Paper 8: COST ACCOUNTING (CAC)

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 You are required to answer all the questions. Each question carries 1 mark. Instructions: Each question is followed by 4 Answer choices and only one is correct. You are required to select the choice which according to you represents the correct answer.				20 × 1 = 20 Marks
1.				
	a.	Notional cost is a _____ .		
	(i)	Imputed cost	A	
	(ii)	Real cost		
	(iii)	Normal cost		
	(iv)	Variable cost		
	b.	Sale of defective goods is ?		
	(i)	Reduced from cost of production	A	
	(ii)	Added from cost of production		
	(iii)	No relation with cost of production		
	(iv)	None of the above		
	c.	Which among the following is not a part of cost accounting?		
	(i)	Product Costing		
	(ii)	Planning		
	(iii)	Profit sharing	A	
	(iv)	Controlling		
	d.	Cost incurred due to shortage of stock is known as: Choose the most appropriate word from the choices below.		

	(i)	Out of stock cost	A	
	(ii)	Imputed cost		
	(iii)	Urgent cost		
	(iv)	Abnormal cost		
e.	There is a profit as per financial account amounting to Rs. 20,000, donation not shown in cost accounts amount to Rs. 8,000. what would be the profit or loss as per cost accounting?			
	(i)	Profit of Rs. 12,000		
	(ii)	Profit of Rs. 28,000	A	
	(iii)	Loss of Rs. 12,000		
	(iv)	Loss of Rs. 28,000		
f.	Which of the following methods smoothes out the effect of fluctuations when material prices fluctuate widely?			
	(i)	FIFO		
	(ii)	LIFO		
	(iii)	Weighted average	A	
	(iv)	Average method		
g.	What is Idle time?			
	(i)	Time spent by workers off their work	A	
	(ii)	Time spent by workers on their job		
	(iii)	Time spent by workers in office		
	(iv)	Time spent by workers in factory		
h.	Which standard deals with “production and operation overhead”?			
	(i)	CAS – 8		
	(ii)	CAS – 3	A	

		(iii)	CAS – 10		
		(iv)	CAS – 12		
	i.	Spoilage that occurs under inefficient operating conditions and is generally controllable is called:			
		(i)	Normal defectives		
		(ii)	Abnormal spoilage	A	
		(iii)	Normal spoilage		
		(iv)	None of the above		
	j.	Absolute Tonne-km. is an example of:			
		(i)	Composite unit for bus operation		
		(ii)	Composite unit of transport sector	A	
		(iii)	Composite unit for oil and natural gas		
		(iv)	All of the above		
	k.	Which among the following methods are used when standardized products are manufactured under a series of inter-connected operations?			
		(i)	Job costing method		
		(ii)	Process costing method	A	
		(iii)	Standard costing method		
		(iv)	All of the above		
	l.	For a toy manufacturing company, which among the following is most suitable			
		(i)	Multiple costing		
		(ii)	Process costing		
		(iii)	Batch costing	A	
		(iv)	Unit costing		

	m.	Which costing method is adopted in cement industries_____. Which word(s) according to you appropriately fills in above blank?		
		(i)	Job Costing	
		(ii)	Contract Costing	
		(iii)	Operating Costing	
		(iv)	Process Costing	A
	n.	Batch costing method is suitable for_____		
		(i)	Sugar Industry	
		(ii)	Chemical Industry	
		(iii)	Pharma Industry	A
		(iv)	Oil Industry	
	o.	What is the labour rate variance if standard hours for 100 units of output are 400 @ Rs. 2 per hour and actual hours taken are 380 @ Rs. 2.25 per hour?		
		(i)	Rs. 95 (adverse)	A
		(ii)	Rs. 100 (adverse)	
		(iii)	Rs. 120 (adverse)	
		(iv)	Rs. 25 (favourable)	
	p.	Which of the following is not a reason for an idle time variance?		
		(i)	strike and lockouts	
		(ii)	power failure	
		(iii)	uncontrollable loss of time	A
		(iv)	machine breakdown	
	q.	The difference between fixed cost and variable cost assumes significance in the preparation of which of the following budget?		
		(i)	Flexible budget	A

		(ii)	Master budget		
		(iii)	Capital budget		
		(iv)	Cash budget		
	r.	Which cost is considered under marginal costing?			
		(i)	Variable Cost	A	
		(ii)	Fixed Cost		
		(iii)	Semi-variable Cost		
		(iv)	Market Price		
	s.	Which among the following are not useful for managerial decision making?			
		(i)	Marginal Cost		
		(ii)	Standard Cost		
		(iii)	Sunk Cost	A	
		(iv)	None of the above		
	t.	When sales exceed production (in units) then profit under:			
		(i)	Marginal costing is higher than that of absorption costing	A	
		(ii)	Marginal costing is equal to that of absorption costing		
		(iii)	Marginal costing is lower than that of absorption costing		
		(iv)	None of the above		
<p align="center">Section B</p> <p align="center">You are required to answer all the questions. Each question carries 2 Mark.</p> <p align="center">Instructions: Each question is followed by a space where you are required to type your answer.</p>					<p align="center">10 × 2 =20 Marks</p>
2.	a.	What are explicit costs?			
		Type your answer here Costs which involve immediate payment of cash, salaries, wages etc. are known as explicit costs.			

	b.	What is the basis used for classifying inventory under FSN system of inventory control?	
		Type your answer here Frequency of the items of inventory use.	
	c.	How is the direct labour hour rate calculated?	
		Type your answer here The direct labor hour rate is computed by dividing the overheads by the aggregate of the productive hours of direct workers.	
	d.	In a company there were 1200 employee on the rolls at the beginning of a year and 1180 at the end. During the year 120 persons left services and 96 replacements were made. What is the percentage of labour turnover to flux method ?	
		Type your answer here 9.08 Rough Work $\frac{1}{2} \times (96+120)/(1180 + 1200) \times 100 = 9.08\%$	
	e.	What is Economic Batch Quantity?	
		Type your answer here Economic Batch Quantity refers to the optimum quantity batch which should be produced at a point of time so that the Set up & Processing Costs and Carrying Costs are together optimized.	
	f.	In a process 8000 units are introduced during a period. 5% of input is normal loss. Closing work in progress 60% complete is 1000 units. 6600 completed units are transferred to next process. Equivalent production for the period is:	
		Type your answer here 7,200 unit	
	g.	What are joint costs?	
		Type your answer here Costs incurred prior to the split off point are known as Joint costs.	
	h.	A firm has Fixed Expenses of Rs. 1,80,000, Sales of Rs. 6,00,000 and Profit of Rs. 1,20,000. What is the value of P/V Ratio of the firm ?	
		Type your answer here 50%	
	i.	Standard price of material per kg is Rs. 20, standard usage per unit of production is 5 kg. Actual usage of production 100 units is 520 kgs, all of which was purchase at the rate of Rs. 22 per kg.	

		Calculate material cost variance.																																																													
		Type your answer here 1,440 Adverse																																																													
	j.	Standard price of material per kg Rs. 20, standards consumption per unit of production is 5 kg. Standard material cost for producing 100 units is																																																													
		Type your answer here Rs. 10,000																																																													
Section C You are required to answer any 4 out of 6 questions in this section Instructions: Each question is followed by a space where you are required to type your answer.			12 × 4 = 48 Marks																																																												
3.	a.	The following data were obtained from the books of A Company for the half-year ended 30th September 2020: <table><tr><td>Expenses</td><td>Amount (Rs.)</td></tr><tr><td>Store Overhead</td><td>800</td></tr><tr><td>Motive Power</td><td>3,000</td></tr><tr><td>Electric Lighting</td><td>400</td></tr><tr><td>Labour Welfare</td><td>6,000</td></tr><tr><td>Depreciation</td><td>12,000</td></tr><tr><td>Repair and Maintenance</td><td>2,400</td></tr><tr><td>General Overhead</td><td>20,000</td></tr><tr><td>Rent And Taxes</td><td>1,200</td></tr></table> <table><tr><td>Particulars</td><td colspan="3">Production department</td><td colspan="2">Service department</td></tr><tr><td></td><td>P1</td><td>P2</td><td>P3</td><td>S1</td><td>S2</td></tr><tr><td>Area (sq. ft.)</td><td>400</td><td>300</td><td>300</td><td>100</td><td>100</td></tr><tr><td>Direct wages (Rs)</td><td>14000</td><td>12000</td><td>10000</td><td>2000</td><td>2000</td></tr><tr><td>Direct Material (Rs.)</td><td>6000</td><td>5000</td><td>4000</td><td>3000</td><td>2000</td></tr><tr><td>Value of Plant (Rs.)</td><td>50000</td><td>30000</td><td>20000</td><td>10000</td><td>10000</td></tr><tr><td>Employees (No.)</td><td>800</td><td>600</td><td>600</td><td>200</td><td>200</td></tr></table>	Expenses	Amount (Rs.)	Store Overhead	800	Motive Power	3,000	Electric Lighting	400	Labour Welfare	6,000	Depreciation	12,000	Repair and Maintenance	2,400	General Overhead	20,000	Rent And Taxes	1,200	Particulars	Production department			Service department			P1	P2	P3	S1	S2	Area (sq. ft.)	400	300	300	100	100	Direct wages (Rs)	14000	12000	10000	2000	2000	Direct Material (Rs.)	6000	5000	4000	3000	2000	Value of Plant (Rs.)	50000	30000	20000	10000	10000	Employees (No.)	800	600	600	200	200	
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	(i)	What is the value of overheads allocated to each department?	4																																																																																																
		<p>Type your answer here</p> <p>Overheads allocated:</p> <p>P1 - 16,640</p> <p>P2 - 12,440</p> <p>P3 - 10,200</p> <p>S1 - 8200</p> <p>S2 - 7280</p> <p>ROUGH WORK</p> <p>Statement of Primary Distribution of Overheads</p> <table><tr><td>Expenses</td><td>Total(Rs.)</td><td>Basis</td><td>P1(Rs.)</td><td>P2(Rs.)</td><td>P3(Rs.)</td><td>S1(Rs.)</td><td>S2(Rs.)</td></tr><tr><td>Direct wages</td><td>4,000</td><td>Actual</td><td>-</td><td>-</td><td>-</td><td>2,000</td><td>2,000</td></tr><tr><td>Direct material</td><td>5,000</td><td>Actual</td><td>-</td><td>-</td><td>-</td><td>3,000</td><td>2,000</td></tr><tr><td>Depreciation</td><td>12,000</td><td>Plant Value</td><td>5,000</td><td>3,000</td><td>2,000</td><td>1000</td><td>1,000</td></tr><tr><td>Lighting</td><td>400</td><td>No of points</td><td>80</td><td>120</td><td>120</td><td>40</td><td>40</td></tr><tr><td>Store overhead</td><td>800</td><td>Direct material</td><td>240</td><td>200</td><td>160</td><td>120</td><td>80</td></tr><tr><td>Motive power</td><td>3,000</td><td>horse power</td><td>960</td><td>720</td><td>720</td><td>240</td><td>360</td></tr><tr><td>Labour welfare</td><td>6,000</td><td>employees</td><td>2,000</td><td>1,500</td><td>1,500</td><td>500</td><td>500</td></tr><tr><td>Repair and maintenance</td><td>2,400</td><td>Plant Value</td><td>1,000</td><td>600</td><td>400</td><td>200</td><td>200</td></tr><tr><td>General overhead</td><td>20,000</td><td>direct wages</td><td>7,000</td><td>6,000</td><td>5,000</td><td>1000</td><td>1,000</td></tr><tr><td>Rent and taxes</td><td>1,200</td><td>area occupied</td><td>400</td><td>300</td><td>300</td><td>100</td><td>100</td></tr><tr><td>Total</td><td>54,800</td><td></td><td>16,680</td><td>12,440</td><td>10,200</td><td>8,200</td><td>7,280</td></tr></table>	Expenses	Total(Rs.)	Basis	P1(Rs.)	P2(Rs.)	P3(Rs.)	S1(Rs.)	S2(Rs.)	Direct wages	4,000	Actual	-	-	-	2,000	2,000	Direct material	5,000	Actual	-	-	-	3,000	2,000	Depreciation	12,000	Plant Value	5,000	3,000	2,000	1000	1,000	Lighting	400	No of points	80	120	120	40	40	Store overhead	800	Direct material	240	200	160	120	80	Motive power	3,000	horse power	960	720	720	240	360	Labour welfare	6,000	employees	2,000	1,500	1,500	500	500	Repair and maintenance	2,400	Plant Value	1,000	600	400	200	200	General overhead	20,000	direct wages	7,000	6,000	5,000	1000	1,000	Rent and taxes	1,200	area occupied	400	300	300	100	100	Total	54,800		16,680	12,440	10,200	8,200	7,280	
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	(ii)	What is the value of the overheads of the production department post re-distribution of the service departments of the overheads, if the expense of department S1 apportion in the ratio of 4:3:3 and that of department S2 in proportion of direct wages?	4																												
		<p>Type your answer here</p> <p>Overheads of the production departments: P1 = Rs.22791 P2 = Rs.17327 P3 = Rs.14682</p> <p>ROUGH WORK</p> <p>Statement of Distribution of Service Department Costs to Primary Departments</p> <table><tr><td>Particulars</td><td>P1</td><td>P2</td><td>P3</td></tr><tr><td></td><td>Rs.</td><td>Rs.</td><td>Rs.</td></tr><tr><td>Overhead Costs as per Primary Distribution</td><td>16680</td><td>12440</td><td>10200</td></tr><tr><td>Distribution of Service Department Costs:</td><td></td><td></td><td></td></tr><tr><td>S1 (8200)</td><td>3280</td><td>2460</td><td>2460</td></tr><tr><td>S2 (7280)</td><td>2831</td><td>2427</td><td>2022</td></tr><tr><td>TOTAL</td><td>22791</td><td>17327</td><td>14682</td></tr></table> <p>Working Notes: Basis of Distribution of Service Department Costs S1: 4:3:3 (given) S2: direct wages (7:6:5)</p>	Particulars	P1	P2	P3		Rs.	Rs.	Rs.	Overhead Costs as per Primary Distribution	16680	12440	10200	Distribution of Service Department Costs:				S1 (8200)	3280	2460	2460	S2 (7280)	2831	2427	2022	TOTAL	22791	17327	14682	
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TOTAL	22791	17327	14682																												
	b.	<p>R Limited has received an offer of quantity discount on its order of materials as under:</p> <table><tr><td>Tonnes</td><td>Price per Tonne</td></tr><tr><td>100 and less than 200</td><td>Rs. 9,120</td></tr><tr><td>200 and less than 300</td><td>Rs. 8,880</td></tr><tr><td>300 and above</td><td>Rs. 8,640</td></tr></table> <p>Additional Information: The annual requirement for the material is 500 tonnes. The ordering cost per order is Rs 12,500 and the stock holding cost is estimated at 25% of the material cost per annum. What is the Economic Order Quantity?</p>	Tonnes	Price per Tonne	100 and less than 200	Rs. 9,120	200 and less than 300	Rs. 8,880	300 and above	Rs. 8,640	4																				
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		<p>Type your answer here Most Economical Purchase Level: 300 tonnes</p> <p>Rough Work</p> <p>Computation of Most Economical Order Level</p> <table><tr><td>Order size (tonnes)</td><td>100</td><td>200</td><td>300</td><td>400</td></tr></table>	Order size (tonnes)	100	200	300	400																								
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		<table><tr><td>No. of orders</td><td>5</td><td>3</td><td>2</td><td>2</td></tr><tr><td>Cost of purchase (Rs.) (A)</td><td>45,60,000 (500×9120)</td><td>44,40,000 (500×8880)</td><td>43,20,000 (500×8640)</td><td>43,20,000 (500×8640)</td></tr><tr><td>Ordering cost (Rs.) (B)</td><td>62,500</td><td>37,500</td><td>25,000</td><td>25,000</td></tr><tr><td>Carrying cost (Rs.) (C)</td><td>1,14,000</td><td>2,22,000</td><td>3,24,000</td><td>4,32,000</td></tr><tr><td>Total (Rs.) [(A) + (B) + (C)]</td><td>47,36,500</td><td>46,99,500</td><td>46,69,000</td><td>47,77,000</td></tr></table> <p>The above table shows that the total cost of 500 units including ordering and carrying cost is minimum (46,69,000) where the order size is 300 units. Hence the most economical purchase level is 300 units.</p>	No. of orders	5	3	2	2	Cost of purchase (Rs.) (A)	45,60,000 (500×9120)	44,40,000 (500×8880)	43,20,000 (500×8640)	43,20,000 (500×8640)	Ordering cost (Rs.) (B)	62,500	37,500	25,000	25,000	Carrying cost (Rs.) (C)	1,14,000	2,22,000	3,24,000	4,32,000	Total (Rs.) [(A) + (B) + (C)]	47,36,500	46,99,500	46,69,000	47,77,000	
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Total (Rs.) [(A) + (B) + (C)]	47,36,500	46,99,500	46,69,000	47,77,000																								
4.	a.	<p>The components A and B are used as follows:</p> <p>Normal usage 300 units per week each Maximum usage 450 units per week each Minimum usage 150 units per week each Reorder Quantity A 2,400 units; B 3,600 units. Reorder period A 4 to 6 weeks, B 2 to 4 weeks.</p> <p>Calculate for each component: (i) Re-order Level (ii) Minimum Level (iii) Maximum Level (iv) Average Stock Level</p>	4																									
		<p>Type your answer here</p> <p>i. Re-order Level = A - 2700 units ; B – 1800 units ii. Minimum Level = A - 1200 units ; B - 900 units iii. Maximum Level = A - 4500 units ; B – 5100 units iv. Average Stock Level = A - 2850 units or 2400 units ; B - 3000 units or 2700 units</p> <p>ROUGH WORK</p> <table><tr><td></td><td>Particulars</td><td>A</td><td>B</td></tr><tr><td>(i)</td><td>Reorder Level [Max. Consumption x Max. Re-order Period]</td><td>2700 units (450 x 6)</td><td>1800 units (450 x 4)</td></tr><tr><td>(ii)</td><td>Minimum Level [ROL – (Normal Consumption x Normal Re-order period)]</td><td>1200 units [2700 – (300 x 5)]</td><td>900 units [1800 – (300 x 3)]</td></tr><tr><td>(iii)</td><td>Maximum Level [ROL + ROQ – (Min. Consumption x Min. Re-order Period)]</td><td>4500 units [2700 + 2400 – (150 x 4)]</td><td>5100 units [1800 + 3600 – (150 x 2)]</td></tr><tr><td>(iv)</td><td>Average Stock Level [Min. Level + Max. Level]/2 OR [Min. level + ½ re – Order Quantity]</td><td>2850 units [4500 + 1200]/2 (or) 2400 units 1200 + ½ (2400)</td><td>3000 units [5100 + 900]/2 (or) 2700 units 900 + ½ (3600)</td></tr></table>		Particulars	A	B	(i)	Reorder Level [Max. Consumption x Max. Re-order Period]	2700 units (450 x 6)	1800 units (450 x 4)	(ii)	Minimum Level [ROL – (Normal Consumption x Normal Re-order period)]	1200 units [2700 – (300 x 5)]	900 units [1800 – (300 x 3)]	(iii)	Maximum Level [ROL + ROQ – (Min. Consumption x Min. Re-order Period)]	4500 units [2700 + 2400 – (150 x 4)]	5100 units [1800 + 3600 – (150 x 2)]	(iv)	Average Stock Level [Min. Level + Max. Level]/2 OR [Min. level + ½ re – Order Quantity]	2850 units [4500 + 1200]/2 (or) 2400 units 1200 + ½ (2400)	3000 units [5100 + 900]/2 (or) 2700 units 900 + ½ (3600)						
	Particulars	A	B																									
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(iii)	Maximum Level [ROL + ROQ – (Min. Consumption x Min. Re-order Period)]	4500 units [2700 + 2400 – (150 x 4)]	5100 units [1800 + 3600 – (150 x 2)]																									
(iv)	Average Stock Level [Min. Level + Max. Level]/2 OR [Min. level + ½ re – Order Quantity]	2850 units [4500 + 1200]/2 (or) 2400 units 1200 + ½ (2400)	3000 units [5100 + 900]/2 (or) 2700 units 900 + ½ (3600)																									

	b.	<p>The management of XYZ Ltd. is worried about the increasing Labour Turnover in the factory and before analyzing the causes and taking remedial steps; they want to have an idea of the profit foregone as a result of Labour Turnover during the last year. Last year’s sales amounted to Rs. 83, 03,300 and the profit/volume ratio was 20%. The total number of actual hours worked by the direct Labour force was 4.45 lakhs. As a result of the delays by the Personnel department in filling vacancies due to Labour Turnover 1,00,000 potentially productive hours were lost. The Actual Direct Labour hours included 30, 000 hours attributable to training new recruits, out of which, half of the hours were unproductive. The cost incurred consequent on Labour turnover revealed, on analysis the following. Settlement cost due to leaving: Rs. 43, 820 & Recruitment costs: Rs. 26,740. Selection costs: Rs. 12,750, & Training costs: Rs. 30,490.</p> <p>Assuming that the potential production lost as a consequence of Labour Turnover could have been sold at prevailing prices.What is the profit foregone last year on account of Labour Turnover?</p>	5														
		<p>Type your answer here Profit foregone last year on account of Labour Turnover=4,30,000 actual productive hours. ROUGH WORK 1)Actual productive hours: Actual hours worked – Unproductive training hours = 4,45,000 – 15,000 [50% of 30, 000] = 4,30,000 actual productive hours. Total hours lost: 1,00,000 hrs Sales lost [Rs. 83,03,300 × 1,00,000]/4,30,000 = Rs. 19,31,000 Loss of contribution – 20% of Rs.19,31,000 = Rs.3,86,200 Profit foregone = Rs. 5,00,000</p> <p>2) Statement Showing Profit Foregone</p> <table><tr><td></td><td>Amount (Rs.)</td></tr><tr><td>Contribution lost:</td><td>3,86,200</td></tr><tr><td>Settlement cost due to leaving:</td><td>43,820</td></tr><tr><td>Recruitment Cost:</td><td>26,740</td></tr><tr><td>Selection Cost :</td><td>12,750</td></tr><tr><td>Training Cost :</td><td>30,490</td></tr><tr><td>Profit foregone :</td><td>5,00,000</td></tr></table>		Amount (Rs.)	Contribution lost:	3,86,200	Settlement cost due to leaving:	43,820	Recruitment Cost:	26,740	Selection Cost :	12,750	Training Cost :	30,490	Profit foregone :	5,00,000	
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	c.	<p>Gross pay Rs.10,30,000 (including cost of idle time hours paid to employee Rs. 25,000); Accommodation provided to employee free of cost [this accommodation is owned by employer, depreciation of accommodation Rs.1,00,000, maintenance charges of the accommodation Rs. 90,000, municipal tax paid for this accommodation Rs. 3,000], Employer’s Contribution to P.F. Rs. 1,00,000 (including a penalty of Rs. 2,000 for violation of PF rules), Employee’s Contribution to P.F. Rs. 75,000. What is the Employee cost?</p>	3														
		<p>Type your answer here Employee Cost = Rs. 12,96,000 ROUGH WORK</p>															

		<table><tr><td></td><td>Particulars</td><td>Amount (₹)</td></tr><tr><td></td><td>Gross Pay (net of cost of idle time) =[10,30,000 (-) 25,000]</td><td>10,05,000</td></tr><tr><td>Add</td><td>Cost of accommodation provided by employer = Depreciation (+) Municipal Tax paid (+) maintenance charges = 1,00,000 + 90,000 + 3,000 = 1,93,000</td><td>1,93,000</td></tr><tr><td>Add</td><td>Employer's Contribution to PF excluding penalty paid to PF authorities [= 1,00,000 (-) 2,000]</td><td>98,000</td></tr><tr><td></td><td>Employee Cost</td><td>12,96,000</td></tr></table>		Particulars	Amount (₹)		Gross Pay (net of cost of idle time) =[10,30,000 (-) 25,000]	10,05,000	Add	Cost of accommodation provided by employer = Depreciation (+) Municipal Tax paid (+) maintenance charges = 1,00,000 + 90,000 + 3,000 = 1,93,000	1,93,000	Add	Employer's Contribution to PF excluding penalty paid to PF authorities [= 1,00,000 (-) 2,000]	98,000		Employee Cost	12,96,000										
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5.	a.	<p>A contractor undertook a contract for Rs. 5 lakh on 1-07-2020 for the construction of a library building. On 30-06-2021, when the accounts were closed, the following details about the contract were gathered:</p> <table><tr><td>Particulars</td><td>(Rs.)</td></tr><tr><td>Materials purchased</td><td>1,00,000</td></tr><tr><td>wages paid</td><td>45,000</td></tr><tr><td>General expenses</td><td>9,000</td></tr><tr><td>Plant purchased</td><td>60,000</td></tr><tr><td>Material in hand on 30-06-2021</td><td>25,000</td></tr><tr><td>Wages accrued 30-06-2021</td><td>5,000</td></tr><tr><td>Work certified</td><td>2,00,000</td></tr><tr><td>Work uncertified</td><td>15,000</td></tr><tr><td>Cash received</td><td>1,50,000</td></tr><tr><td>Plant depreciation</td><td>6,000</td></tr><tr><td></td><td></td></tr></table> <p>The above contract contains an escalation clause which reads as follows. 'In the event the price of materials and rates of wages increase by more than 5%, the contract price would be increased accordingly by 25% of the rise in the cost of materials and wages beyond 5% in each case.'</p> <p>It was found that since the date of signing the agreement, the price of materials and wage rates increased by 25%. The value of work certified does not take into account the effect of the above clause.</p> <p>(a) Determine the escalation value? (b) What is the amount of profit transferred to P/L A/c? (c) What is the amount transferred to reserve?</p>	Particulars	(Rs.)	Materials purchased	1,00,000	wages paid	45,000	General expenses	9,000	Plant purchased	60,000	Material in hand on 30-06-2021	25,000	Wages accrued 30-06-2021	5,000	Work certified	2,00,000	Work uncertified	15,000	Cash received	1,50,000	Plant depreciation	6,000			7
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		<p>Type your answer here</p> <p>(a) Escalation value – Rs. 5,000 (b) Profit transferred to P/L A/c – Rs. 20,000 (c) Amount transferred to reserve - Rs. 60,000</p>																									

	<div><div>ROUGH WORK</div><div>Contract Account (for the year ended 30th, June 2021)</div><table><tr><td>Dr.</td><td></td><td></td><td>Cr.</td></tr><tr><td>Particulars</td><td>Rs.</td><td>Particulars</td><td>Rs.</td></tr><tr><td>To Materials</td><td>1,00,000</td><td>By WIP:</td><td></td></tr><tr><td>To Labour 45,000</td><td></td><td>work certified</td><td>2,00,000</td></tr><tr><td>Add: Accrued 5,000</td><td>50,000</td><td></td><td></td></tr><tr><td>To General expense</td><td>9,000</td><td>work uncertified</td><td>15,000</td></tr><tr><td>To Depreciation</td><td>6,000</td><td>By material in hand</td><td>25,000</td></tr><tr><td></td><td></td><td>By contract escalation</td><td>5,000</td></tr><tr><td>To Balance c/d (Notional profit)</td><td>80,000</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td>2,45,000</td><td></td><td>2,45,000</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>To P&L a/c (80000*1/3*150000/200000)</td><td>20,000</td><td>By balance b/d</td><td>80,000</td></tr><tr><td>To balance c/d (reserve)</td><td>60,000</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td>80,000</td><td></td><td>80,000</td></tr></table><div>Working Notes: a) Calculation of Escalation: material consumed = 1,00,000 – 25,000 = 75,000 increased in material cost = 75,000 * 25/125 = 15,000 wags = 45,000 + 5,000 = 50,000 increase in wages = 50,000*25/125 = 10,000 Total increase 25,000 since the increase in materials and wages is more than 5%, the escalation will apply. escalation is 25% of the increase in the cost of material and wages beyond 5%. 25% increase 25,000 less: 5% increase 5,000 increased beyond = 20,000 escalation = 20,000*25% = 5,000 this contract escalation of 5000 will be credited to contract account. b) As the contract is only 40% certified, only 1/3 of the profit in cash ratio has been transferred to P&L Account.</div></div>	Dr.			Cr.	Particulars	Rs.	Particulars	Rs.	To Materials	1,00,000	By WIP:		To Labour 45,000		work certified	2,00,000	Add: Accrued 5,000	50,000			To General expense	9,000	work uncertified	15,000	To Depreciation	6,000	By material in hand	25,000			By contract escalation	5,000	To Balance c/d (Notional profit)	80,000								2,45,000		2,45,000					To P&L a/c (80000*1/3*150000/200000)	20,000	By balance b/d	80,000	To balance c/d (reserve)	60,000								80,000		80,000	
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b.	<div><div>Mr. S has started a transport business with a fleet of 10 taxies. The various expenses incurred by him are given below:</div><div><div>(i) Cost of each taxi Rs. 3,80,000.</div><div>(ii) Salary of Office and garage Staff Rs. 38,000 p.m.</div><div>(iii) Rent of Garage Rs. 12,000 p.m.</div><div>(iv) Drivers Salary (per taxi) Rs. 4,000 p.m.</div><div>(v) insurance, Road Tax and Repairs per taxi Rs. 55,200 p.a.</div></div><div>The life of a taxi is 3,00,000 Km. and at the end of which it is estimated to be sold at Rs. 20,000. A taxi runs on an average 4,000 Km. per month. Petrol consumption is 12 km per litre of petrol costing Rs. 30 per litre. What is the cost of running a taxi per km?</div></div>	5																																																																

		<p>Type your answer here Cost of running a taxi per km = Rs. 7.10/km Rough Work</p> <p style="text-align: center;">Operating Cost Sheet</p> <table> <tr> <th>Particulars</th><th>Details/Computation</th><th>Per taxi p.m (Rs.)</th><th>Per Km (Rs.)</th></tr> <tr> <td>Fixed Expenses:</td><td></td><td></td><td></td></tr> <tr> <td>Salary of office and garage staff</td><td>38000/10</td><td>3,800</td><td></td></tr> <tr> <td>Rent of garage</td><td>12000/10</td><td>1,200</td><td></td></tr> <tr> <td>Driver Salary</td><td></td><td>4,000</td><td></td></tr> <tr> <td>Insurance, Road tax and repairs</td><td>55200/12</td><td>4,600</td><td></td></tr> <tr> <td>Fixed Cost of 1 taxi per month</td><td></td><td>13,600</td><td></td></tr> <tr> <td>Fixed Cost per Taxi per km</td><td>13600/4000</td><td></td><td>3.40</td></tr> <tr> <td>Running Costs:</td><td></td><td></td><td></td></tr> <tr> <td>Depreciation</td><td>(3,80,000 - 20,000) / 3,00,000</td><td></td><td>1.20</td></tr> <tr> <td>Petrol</td><td></td><td></td><td>2.50</td></tr> <tr> <td>Total Cost per taxi per Km</td><td></td><td></td><td>7.10</td></tr> </table>	Particulars	Details/Computation	Per taxi p.m (Rs.)	Per Km (Rs.)	Fixed Expenses:				Salary of office and garage staff	38000/10	3,800		Rent of garage	12000/10	1,200		Driver Salary		4,000		Insurance, Road tax and repairs	55200/12	4,600		Fixed Cost of 1 taxi per month		13,600		Fixed Cost per Taxi per km	13600/4000		3.40	Running Costs:				Depreciation	(3,80,000 - 20,000) / 3,00,000		1.20	Petrol			2.50	Total Cost per taxi per Km			7.10	
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6.	a.	<p>AB Ltd. is committed to supply 24,000 bearings per annum to CD Ltd. On a steady basis. It is estimated that it costs 10 paise as inventory holding cost per bearing per month and that the set-up cost per run of bearing manufacture is Rs. 324.</p> <p>What is the minimum inventory holding cost at optimum run size?</p>	4																																																
		<p>Type your answer here Minimum holding cost (run size 3600 bearings) = Rs. 2160 ROUGH WORK</p> <p>Optimum production Run Size (Q) = $\sqrt{\frac{2AS}{C}}$</p> <p>Where, A = No. of units to be produced within one year = 24,000 (units) bearing O = Set-up cost per production run = ₹ 324 C = Carrying cost per unit per annum = 0.10 × 12 = ₹ 1.2</p> <p>= $\sqrt{\frac{2 \times 24,000 \times 324}{1.2}}$ = 3,600 units (bearing)</p>																																																	

		Minimum inventory Holding Cost, if run size is 3600 bearings = Average inventory x carrying cost per unit = (3600/2) x (.10 x 12) = ₹ 2160																													
	b.	State 3 differences between Absorption Costing and Marginal Costing	3																												
		Type your answer here 1. In Absorption Costing both fixed and variable costs are considered for product costing and inventory valuation whereas in Marginal Costing only variable costs are considered for product costing and inventory valuation. 2. Under Absorption Costing fixed costs are charged to the cost of production. Each product bears a reasonable share of fixed cost and thus the profitability of a product is influenced by the apportionment of fixed costs while under Marginal Costing fixed costs are regarded as period costs. The profitability of different products is judged by their P/V ratio. 3. Cost data are presented in conventional pattern. Net profit of each product is determined after subtracting fixed cost along with their variable cost in Absorption Costing. However in Marginal Costing cost data are presented to highlight the total contribution of each product.																													
	c.	On the basis of the following data, determine the overhead rates at 70% and 80%. <table><tr><th>Particulars</th><th>Amount (Rs.)</th></tr><tr><td>Production capacity</td><td>At 80% capacity</td></tr><tr><td>Variable Overheads:</td><td></td></tr><tr><td>Indirect labour</td><td>12,000</td></tr><tr><td>Stores including spares</td><td>4,000</td></tr><tr><td>Semi Variable:</td><td></td></tr><tr><td>Power (30% - Fixed: 70% -Variable)</td><td>20,000</td></tr><tr><td>Repairs (60%- Fixed: 40% -Variable)</td><td>2,000</td></tr><tr><td>Fixed Overheads:</td><td></td></tr><tr><td>Depreciation</td><td>11,000</td></tr><tr><td>Insurance</td><td>3,000</td></tr><tr><td>Salaries</td><td>10,000</td></tr><tr><td>Total overheads</td><td>62,000</td></tr><tr><td>Estimated Direct Labour Hours</td><td>1,24,000</td></tr></table>	Particulars	Amount (Rs.)	Production capacity	At 80% capacity	Variable Overheads:		Indirect labour	12,000	Stores including spares	4,000	Semi Variable:		Power (30% - Fixed: 70% -Variable)	20,000	Repairs (60%- Fixed: 40% -Variable)	2,000	Fixed Overheads:		Depreciation	11,000	Insurance	3,000	Salaries	10,000	Total overheads	62,000	Estimated Direct Labour Hours	1,24,000	5
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Estimated Direct Labour Hours	1,24,000																														
		Type your answer here: Overhead rate: at 70% = 0.536 at 80% = 0.5 ROUGH WORK																													

Particulars	Capacity Utilisation	
	70%	80%
(A) Variable Overheads:		
Indirect labour	10,500	12,000
Stores including spares	3,500	4,000
Total (A)	14,000	16,000
(B) Semi Variable Overheads:		
Power	18,250	20,000
Repair	1,900	2,000
Total (B)	20,150	22,000
(C) Fixed Overheads:		
depreciation	11,000	11,000
insurance	3,000	3,000
salaries	10,000	10,000
Total (C)	24,000	24,000
Grand Total (A+B+C)	58,150	62,000
Labour hours	1,08,500 (124000*7/8)	1,24,000
Overhead rate per hour (Rs.)	= 0.536 (58150/108500)	= 0.50 (62000/124000)
Workings:		
Semi Variable Overheads		
	70%	80%
Variable	14000*(7/8)= 12250	14000*(9/8) = 15750
Fixed	6,000	6,000
Fixed	6,000	6,000
Total	18,250	21,750
Repairs		

		<table><tr><td>Variable</td><td>800*(%) = 700</td><td>800*(9/8) = 900</td></tr><tr><td>Fixed</td><td>1,200</td><td>1,200</td></tr><tr><td>Total</td><td>1,900</td><td>2,100</td></tr></table>	Variable	800*(%) = 700	800*(9/8) = 900	Fixed	1,200	1,200	Total	1,900	2,100								
Variable	800*(%) = 700	800*(9/8) = 900																	
Fixed	1,200	1,200																	
Total	1,900	2,100																	
7.	a.	When the volume is 3,000 units, the average cost is Rs 4 per unit. When volume is 4,000 units, average cost is Rs 3.50 per unit. The break-even point is 5,000 units.																	
	(i)	What is the profit volume ratio?	3																
		<p>Type your answer here Profit-volume ratio = 37.5%</p> <p>ROUGH WORK</p> <table><tr><td></td><td>Output (units)</td><td>Average cost (Rs.)</td><td>Total cost (Rs.)</td></tr><tr><td></td><td>3,000</td><td>4</td><td>12,000</td></tr><tr><td></td><td>4,000</td><td>3.50</td><td>14,000</td></tr><tr><td>Difference</td><td>1,000</td><td></td><td>2,000</td></tr></table> <p>Variable cost per unit = 2,000/1,000 = Rs 2 Total Fixed cost = 12000 - (3,000 units * 2) = Rs 6,000 At BEP: sales = Fixed cost + Variable cost Cost at 5,000 units = 6,000 + (5,000 * 2) = 16,000 BEP = fixed cost / p/v ratio 16,000 = 6,000 / p/v ratio p/v ratio = 6,000/16,000 = 37.50%</p>		Output (units)	Average cost (Rs.)	Total cost (Rs.)		3,000	4	12,000		4,000	3.50	14,000	Difference	1,000		2,000	
	Output (units)	Average cost (Rs.)	Total cost (Rs.)																
	3,000	4	12,000																
	4,000	3.50	14,000																
Difference	1,000		2,000																
	(ii)	If margin of safety is 40% of sales, what is the fixed cost when profit is Rs 2,00,000?	3																
		<p>Type your answer here Fixed cost = Rs. 30,000</p> <p>ROUGH WORK</p> <p>Margin of Safety = 40%, thus BEP = 60% of sales Margin of Safety (M/S) = profit/ P/V ratio, BEP = Fixed cost / P/V ratio M/S/BEP = 40% of sales/ 60% of sales = Profit/pv ratio divided by fixed cost / pv ratio = Profit / Fixed cost = 40%/60% = 2/3 = 2/3 = Profit / Fixed cost = 20,000/Fixed cost = Fixed cost = 60000/2 = Rs 30,000</p>																	

b.	For making 10 kg of Gemco, the standard material requirement is:	6									
	<table><tr><td>Material</td><td>Quantity (kg)</td><td>Rate per kg (Rs.)</td></tr><tr><td>A</td><td>8</td><td>6</td></tr><tr><td>B</td><td>4</td><td>4</td></tr></table>		Material	Quantity (kg)	Rate per kg (Rs.)	A	8	6	B	4	4
	Material		Quantity (kg)	Rate per kg (Rs.)							
A	8	6									
B	4	4									
During April, 1000 kg of Gemco were produced. The actual consumption of material is as under:											
	<table><tr><td>Material</td><td>Quantity (kg)</td><td>Rate per kg (Rs.)</td></tr><tr><td>A</td><td>750</td><td>7</td></tr><tr><td>B</td><td>500</td><td>5</td></tr></table>	Material	Quantity (kg)	Rate per kg (Rs.)	A	750	7	B	500	5	
Material	Quantity (kg)	Rate per kg (Rs.)									
A	750	7									
B	500	5									
	Calculate: Material Cost Variance Material Price Variance Material Usage Variance.										

	<p>Type your answer here</p> <p>Material Cost Variance - 1350 (A)</p> <p>Material Price Variance - A = 750 (A), B = 500 (A)</p> <p>Material Usage Variance - A = 300 (F), B = 400 (A)</p> <p>ROUGH WORK</p> <table><tr><th colspan="4">Standard for 1000 kg</th><th colspan="3">Actual for 1000 kg</th></tr><tr><th>Material</th><th>Qty (kg)</th><th>Rate (Rs.)</th><th>Amount (Rs.)</th><th>Qty (kg)</th><th>Rate (Rs.)</th><th>Amount (Rs.)</th></tr><tr><td>A</td><td>800</td><td>6</td><td>4,800</td><td>750</td><td>7</td><td>5,250</td></tr><tr><td>B</td><td>400</td><td>4</td><td>1,600</td><td>500</td><td>5</td><td>2,500</td></tr><tr><td>Total</td><td>1,200</td><td></td><td>6,400</td><td>1,250</td><td></td><td>7,750</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>Calculation of variance:</p> <p>Material cost variance: SC for actual cost - AC = 6400 - 7750 = 1350 (A)</p> <p>Material price variance = (SP-AP) x AQ</p> <p>A = (6-7 x 750 = 750 (A)</p> <p>B = (4-5) x 500 = 500 (A)</p> <p>= 1250 (A)</p> <p>Material usage variance = (SQ- AQ) x SP</p> <p>A = (800-750) x 6 = 300 (F)</p> <p>B = (400-500) x 4 = 400 (A)</p> <p>= 100 (A)</p>	Standard for 1000 kg				Actual for 1000 kg			Material	Qty (kg)	Rate (Rs.)	Amount (Rs.)	Qty (kg)	Rate (Rs.)	Amount (Rs.)	A	800	6	4,800	750	7	5,250	B	400	4	1,600	500	5	2,500	Total	1,200		6,400	1,250		7,750								
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8.		You are required to write Short Notes on any 4 out of 5 questions.	4× 3 = 12 Marks
	(i)	Explain the Objectives of Cost Accounting Standard Board (CASB)	
		Type your answer here The objectives of the CASB are to develop high quality Cost Accounting Standards on important issues/topics relating to Cost and Management Accounting with the following objectives: (i) To issues the guidelines for Cost Accounting Standard. (ii) To equip the profession with better guidelines on standard cost accounting practices. (iii) To assists the Cost Accountant in preparation of uniform cost statements. (iv) To provide from time to time proper interpretations on various Cost Accounting Standards. (v) To assist the management to follow the standard cost accounting practices in the matter of compliances of statutory obligations. (vi) To issue appropriate guidelines relating to particular standard. (vii) To help Government and Industry towards better cost control and cost management. (viii) To assist the cost accountant to undertake cost audit in appropriate way as all cost statement are in uniform format.	
	(ii)	Role of the Cost Accountants in an organization. (Any 6)	
		Type your answer here The role of the cost accountants in the organisations can be enumerated as follows: (i) to analyse various elements of cost of production/services such as material, labour, overhead expenses etc. (ii) to introduce appropriate costing methods in the organisation so as to facilitate management with the knowledge of cost of production/services for managerial decision making (iii) to determine the cost of the new product/service in order to facilitate management in arriving at the correct pricing decisions (iv) to determine the feasibility and profitability of the various project proposals considered by the management (v) to analyse variances against standard by reason to enable concerned department to initiate corrective action (vi) collection, collation of extraneous information for management to compare the company's performance with that of peers and the industry for better appreciation and decision-making.	
	(iii)	Advantages of job costing (Any 3)	
		Type your answer here Job costing offers the following advantages: (a) The cost of material, labour and overhead for every job or product in a department is available daily, weekly or as often as required while the job is still in progress. (b) On completion of a job, the cost under each element is immediately ascertained. Costs may be compared with the selling prices of the products in order to determine their profitability and to decide which product lines should be pushed or discontinued. (c) Historical costs for past periods for each product, compiled by orders, departments, or	

		<p>machines, provide useful statistics for future production planning and for estimating the costs of similar jobs to be taken up in future. This assists in the prompt furnishing of price quotations for specific jobs.</p> <p>(d) The adoption of predetermined overhead rates in job costing necessitates the application of a system of budgetary control of overhead with all its advantages.</p> <p>(e) The actual overhead costs are compared with the overhead applied at predetermined rates; thus, at the end of an accounting period, overhead variances can be analyzed.</p> <p>(f) Spoilage and defective work can be easily identified with specific jobs or products.</p> <p>(g) Job costing is particularly suitable for cost-plus and such other contracts where selling price is determined directly on the basis of costs .</p>	
	(iv)	Any 6 limitations of Break-even analysis.	
		<p>Type your answer here</p> <p>a. That Costs are either fixed or variable and all costs are clearly segregated into their fixed and variable elements. This cannot possibly be done accurately and the difficulties and complications involved in such segregation make the break-even point inaccurate.</p> <p>b. That the behavior of both costs and revenue is not entirely related to changes in volume.</p> <p>c. That costs and revenue patterns are linear over levels of output being considered. In practice, this is not always so and the linear relationship is true only within a short run relevant range.</p> <p>d. That fixed costs remain constant and variable costs vary in proportion to the volume. Fixed costs are constant only within a limited range and are liable to change at varying levels of activity and also over a long period, particularly when additional plants and equipments are introduced.</p> <p>e. That sales mix is constant or only one product is manufactured. A combined analysis taking all the products of the mix does not reflect the correct position regarding individual products.</p> <p>f. That production and sales figures are identical or the change in opening and closing stocks of the finished product is not significant.</p> <p>g. That the units of production on the various product range are identical. Otherwise, it is difficult to find a homogeneous factor to represent volume.</p> <p>h. That the activities and productivity of the concern remain unchanged during the period of study.</p> <p>i. As output is continuously varied within a limited range, the contribution margin remains relatively constant. This is possible mainly where the output is more or less homogeneous as in the case of process industries.</p>	
	(v)	Causes of Direct Rate labour variance (Any 3).	
		<p>Type your answer here</p> <p>a. Change in basic wage structure or change in piece-work rate. These will give rise to a variance till such time the standards are not revised</p> <p>b. Employment of workers of grades and rates of pay different from those specified, due to shortage of labour of the proper category, or through mistake, or due to retention of surplus labour</p> <p>c. Payment of guaranteed wages to workers who are unable to earn their normal wages if such guaranteed wages form part of direct labour cost</p> <p>d. Use of a different method of payment, e.g. payment at day-rates while standards are based</p>	

		<p>on piece-work method of remuneration.</p> <p>e. Higher or lower rates paid to casual and temporary workers employed to meet seasonal demands, or urgent or special work</p> <p>f. New workers not being allowed full normal wage rates</p> <p>g. Overtime and night shift work in excess of or less than the standard, or where no provision has been made in the standard. This will be applicable only if overtime and shift differential payments form part of the direct labour cost.</p> <p>h. The composition of a gang as regards the skill and rates of wages being different from that laid down in the standard .</p>	
		<p align="center">Section D</p> <p align="center">You are required to answer all the questions in this section</p> <p align="center">Instructions: Each question is followed by a space where you are required to type your answer.</p>	<p align="center">12 × 1 = 12 Marks</p>
9.		<p>Mr. Y has completed his graduation very recently and undertaken a course on entrepreneurship. He has learnt various concepts of cost and management accounting.</p> <p>He has managed to gather some funds amounting to Rs.50,000. However, applying the various concepts of cost and management accounting, he arrived at a conclusion that the fixed costs would amount to Rs. 75,000 per year.</p> <p>He had a discussion with a Cost and Management Account who opined that the Variable Cost would be 60% of Sales Revenue.</p> <p>However, Rs.50,000 would not be sufficient for starting the business instead Rs. 1,50,000 would be the total investment required for the business.</p> <p>Mr. Y seeks a 15% profit on the total investment in the business.</p>	
	a.	Mr. Y is interested to know the P/V Ratio. You are required to assist him in computing the P/V Ratio.	3
		<p>Type your answer here</p> <p>P/V Ratio = 40%</p> <p>ROUGH WORK</p> <p>P/V Ratio= Sales - Variable cost =40 %</p>	
	b.	Now he want to know that what sales volume must be obtained to reach at a position of no profit no loss situation?	3
		<p>Type your answer here</p> <p>Break even sales = Rs. 1,87,500</p> <p>ROUGH WORK</p> <p>b) Break even sales = Sales/Profit volume ration =75,000 / 40% = Rs. 1,87,500</p>	

	c.	Mr Y want to achieve 15 % return on his investment , now you suggest him the targeted sales volume to reach his desired income.	3
		Type your answer here Rs 2,43,750/- ROUGH WORK Required sales to get desired income = Fixed Cost+15% of Investment/profit Volume ratio =75,000+(15%of 1,50,000)/40% = Rs. 2,43,750	
	d.	Mr. Y estimates that even if he closed the doors of his business he would incur Rs. 25,000 expenses per year. At what sales would be better off by locking his sales up?	3
		Type your answer here Rs. 1,25,000 ROUGH WORK Shut down sales = Fixed cost – shut down cost P/V Ratio = (75,000 – 25,000) / 40% = Rs. 1,25,000	

END