FINAL EXAMINATION Syllabus 2016

Paper 15: STRATEGIC COST MANAGEMENT – DECISION MAKING (SCMD)

Time Allowed: 3 Hours Full Marks: 100

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

		ictions:	Section A are required to answer all the questions. Each question carries 1 mark. Each question is followed by 4 Answer choices and only one is correct. You a to select the choice which according to you represents the correct answer.	re	20 × 1 = 20 Marks
1.	a.	_	t profit is a commitment agreed by all the people in a firm, who have any part	to play	
			nieving it. In this context, target cost can be expressed as:		
		(i)	Target Cost = Actual Selling Price - Actual Profit		
		(ii)	Target Cost = Planned Selling Price - Required Profit	Α	
		(iii)	Target Cost = Planned Selling Price - Actual Profit		
	-	(iv)	Target Cost = Actual Selling Price - Required Profit.		
	b.	progr	s specific costing technique which refers to the ongoing continuous improvement am that focuses on the reduction of waste in the production process. This techniques		
		(i)	Target costing		
		(ii)	Activity based costing	Α	
		(iii)	Kaizen costing		
		(iv)	Throughput costing		
	c.	1	of work content to lead time is also known as Throughput efficiency ratio		
		(i) (ii)	Throughput time ratio	Α	
		(iii)	Operational efficiency ratio	A	
		(iv)	Manufacturing response time		
	d.	from	gement's attention which is directed towards situations where actual results of expected results is known as:	liffer	
		(i)	Management's Perception	۸	
		(ii)	Management by Exception Total Quality Management	Α	
		(iii)	Value Analysis		
		(10)	value Alialysis		
	e.		is the opportunity cost of making a component part in a factory given no alter f the capacity?	native	
		(i)	The variable manufacturing cost of the component		
		(ii)	The total manufacturing cost of the component		
		(iii)	The total variable cost of the component		
		(iv)	Zero	Α	

	l .	s.96,000 per month and the product has a contribution to sales ratio of 40%	
	+ -	d when actual sales were Rs.2,80,000, the company's margin of safety in units	was.
	(i)	1,600	Δ.
	(ii)	4,000	Α
	(iii)	16,000	
	(iv)	40,000	
g.	A con	npany has a break even point when sales are Rs.3,20,000 and variable cost	at that
	level	of sales are Rs. 2,00,000. How much would contribution margin increase or de	ecrease
	if vari	able expenses are dropped by Rs. 30,000?	
	(i)	Increase by 27.5%	
	(ii)	Increase by 9.375%	Α
	(iii)	Decrease by 9.375%	
	(iv)	Increase by 37.5%	
h.		nce analysis involves breaking down and analyzing the total variance to explain	n :
	(i)	How much of the variance is caused by using the resources that are	
		different from the standards, i.e. the quantity variance	
	(ii)	How much of the variance is caused by using the cost of the resources	
		being different from the standards, i.e. the rate variance.	
	(iii)	All of the Above	Α
	(iv)	None of the above	
i.	Which	of the following may be the cause of Material Price Variance?	
<u>''</u>	(i)	Change in quantity of purchase or uneconomical size of purchase order.	
	(ii)	Failure to take advantage of off-season price or failure to purchase when	
	(")	price is cheaper.	
	(iii)	Change in basic purchase price of material.	
	(iv)	All of the above	Α
	(,	The of the above	
j.	Which	n of the following is NOT a method of transfer pricing?	
	(i)	Cost plus transfer price	
	(ii)	Internal price plus transfer price	Α
	(iii)	Market-based transfer price	
	(iv)	Two part transfer price	
	D 1 1 1	have a second and a	C- 1
k.	l .	has earned net profit of Rs.1 lakh, and its overall P/V ratio and margin of sain nd 50% respectively. What is the total fixed cost of the company?	rety are
			A
	(i)	Rs.1,00,000	^
	(ii)	Rs.2,00,000 Rs.2,50,000	
	(iv)	Rs.3,00,000	
l.	Unifo	rm costing is :	
	(i)	A separate method of costing	
	(ii)	A type of costing	
	(iii)	A technique of costing	Α
	1 ()		

m.	actua accor up. T	npany uses traditional standard costing system. The inspection and set-up colly Rs.1,760 against a budget of Rs.2,000. ABC system is being implement dingly the number of batches is identified as the cost driver for inspection he budgeted production is 10,000 units in batches of 1,000 units whereas a units were produced in 11 batches. What will be the cost per batch under?	ed and and and set actually	
	(i)	Rs.160		
	(ii)	Rs.180		
	(iii)	Rs.200	Α	
	(iv)	Rs.220		
n.	Mach Mach raw r	uction overheads of XYZ Manufactures Pvt. Ltd. for 500 units of product nine oriented activity cost Rs.135400, Material ordering overheads Rs. 6 nine hours 1.50 hrs. per unit, No. of material orders are 6, production of X rematerial cost Rs.300 per unit and labour cost Rs.150 per unit. Total cost of X is	69570 , requires	
	(i)	Rs.588		
	(ii)	Rs. 625		
	(iii)	Rs. 450		
	(iv)	Rs. 744.50	Α	
0.	units toget	., has developed a new product and just completed the manufacture of fir of the product. The first unit took 2 hours to manufacture and the first for her took 5.12 hours to produce. The Learning Curve rate is:		
	(i)	83.50%	Α	
	(ii)	80.00%		
	(iii)	75.50%		
	(iv)	None of the above		
p.		nathematical model of an Linear Programming is important because	·•	
	(i)	It helps in converting the verbal description and numerical data into mathematical expression	Α	
	(ii)	Decision makers prefer to work with formal models		
	(iii)	It capture the relevant relationship among the decisions		
	(iv)	It enables the use of algebraic technique		
q.	(i) (ii)	of a system is the operation of a model in terms of time of helps analyze the performance of an existing or a proposed system. Modelling Control Systems	,	
	(iii)	Simulation	Α	
	(iv)	Radar		
r.	oppo	e solving an assignment problem, an activity is assigned to a resource wirtunity cost because objective is to		
	(i)	Minimize total cost of assignment	Α	
	(ii)	Reduce total cost of assignment to zero		
	(iii)	Reduce cost of that assignment to zero		
	(iv)	Maximize total cost of assignment		
s.	An as	signment problem is considered as a particular case of		

		(i) Transportation problem			А					
		(ii) Sequencing problem								
		(iii) Queuing problem								
		(iv) Game theory								
		(iv) dame theory								
	t.	One disadvantage of using North-We	st Corner rule to	find initial solution	on to the					
	"	transportation problem is that	st comer raic to	illa illitiai solatio	on to the					
	(i) It is complicated to use									
		(ii) It does not take into account cost	of transportation		Α					
		(iii) It leads to degenerate initial solution	•							
		(iv) It may provide wrong solution	1011							
		(iv) it may provide wrong solution								
		Sec	tion B			10 × 2:				
		You are required to answer all the qu		on carries 2 marks	_	20				
	Instr	uctions: Each question is followed by a sp				Marks				
	111341	usiono. Lucii question la fone il cui a y a sp	ace micre you are re	iganica to type you	u. u	wianko				
2.	a.	Marketing department of an organization	on estimates that 40	000 of new mixer	s could be					
•	u.	sold annually at a price of Rs.60 each. T								
		an investment of Rs.40,00,000 would be	• • •	•						
		investment (ROI). Given these data, wh	•	•						
		distribute and service one mixer?	iat will be the targe	t cost to manara	cture, sen,					
		Type your answer here								
		Rs. 45 per unit								
		No. 40 per unit								
	b.	Company B uses a throughput accounting	ng system. The sellin	g price per unit of	product X					
	0.				•					
		Rs.50, material costs and conversion costs per unit are Rs.16 and Rs.20 respectively. Time on bottleneck resources is 8 minutes. Compute the return per hour for product X.								
		Type your answer here		a p. aaaa.						
		Return per hour = Rs. 255								
		ROUGH WORK								
			aterial cost)/Time or	bottleneck resou	rce = (50-					
		Return per minute = (Selling price - material cost)/Time on bottleneck resource = $(50-16)/8 = 4.25$; Return per hour = $4.25 \times 60 = 255$								
	C.	A Company is to market a new produ	ict. It can produce i	up to 1.50.000 un	its of this					
		product. The following are the estimated	· ·	-,,						
			1		1					
		Probability	Fixed Cost (Rs.)	Variable Cost	-					
		For production up to 75,000 units	8, 00,000	60%						
		Exceeding 75,000 units	1, 20,000	50%						
		Sale price is expected to be Rs.25 per uni	t. How many units m	ust the company s	ell to					
		break even?								
		Type your answer here								
		1,11,000 units								
	d.	A Ltd is a manufacturing company whi	ch is involved in the	production of au	utomobiles.					
		Based on information from its last but	dget period, budgete	ed production 2,5	0,000 units					
		whereas actually it produced 2,75,0	000 units. Though	budgeted fixed	overheads					
		II.		antically annuan						
		Rs.50,00,00,000 was fixed by the co	oncerned authority,	actually compan	y incurred					
		Rs.50,00,00,000 was fixed by the co Rs.52,60,00,000. Considering all these								

	Turne volum emerican home
	Type your answer here
	Fixed overhead volume variance = Rs.5,00,00,000 (F) Fixed overhead expenditure variance = Rs.2,60,00,000 (A)
	Tixed Overhead experialities variance = N3.2,00,000 (A)
e.	Sunk cost and Committed Cost are used interchangeably. Do u agree? Justify.
	Type your answer here
	Sunk costs are costs that were incurred in the past. Committed costs are costs that will occur in the future, but that cannot be changed. As a practical matter, sunk costs and committed costs are equivalent with respect to their decision-relevance; neither is relevant with respect to any decision, because it cannot be changed. Sometimes, accountants use the term "sunk costs" to encompass committed costs as well.
f.	Fixed Costs are unrelated to output and are generally irrelevant for decision-making purpose. However, there are certain circumstances where fixed Costs become relevant for decision-making. In this context highlight any four situations where fixed cost is playing a major role.
	Type your answer here
	 The situations where fixed cost is playing a major role are as follows: When Fixed Costs are specifically incurred for any contract, When Fixed Costs are incremental in nature. When the fixed portion of Semi-Variable Cost increases due to change in level of activity consequent to acceptance of a contract. When Fixed Costs are avoidable or discretionary, When Fixed Costs are such that one cost is incurred in lieu of another (the difference in costs will be relevant for decision-making.)
	Costs will be relevant for decision-making.)
g.	The profit volume ratio of Z Limited is 50% and the margin of safety is 40%. Calculate the net profit if the sales is Rs.1, 00,000. Type your answer here
	Rs. 20,000
h.	A specific analysis enables us to take a systematic quantitative structural approach to the problem of managing a project through to successful completion. Name it. Is it applicable in all situations? Mention any two.
	Type your answer here
	Network analysis
	It is not applicable in all situations.
	Applications:
	(i) Construction of a Residential complex,(ii) Commercial complex,
	(ii) Commercial complex, (iii) Petro-chemical complex
	(iv) Ship building
	(v) Satellite mission development
	(vi) Installation of a pipe line project etc
	The second secon
i.	Is AOA and AON same? Explain.
	Type your answer here
	No its not same. AOA system (Activity on Arrow system): In this activities are represented by an arrows
	AON system (Activity on Node system): In this method activities are represented in the

	j.	There are many methods of solving an assignment problem. Mention any four.	
	J.	Type your answer here	
		The various method of solving an assignment problems are as follows:	
		(1) Complete Enumeration Method	
		(2) Simplex Method	
		(3) Transportation Method and(4) Hungarian Method	
		(4) Hungarian Method	
		Section C	4 × 12=
			4 × 12=
	Inct	You are required to answer any 4 out of 6 questions in this section	
	inst	ructions: Each question is followed by a space where you are required to type your answer.	Marks
3.	_	State the importance of Bradust Life Cycle Costing	6
5.	a.	State the importance of Product Life Cycle Costing .	6
		Type your answer here	
		Product Life Cycle Costing is considered important due to the following reasons —	
		(1) Time based analysis: Life cycle costing involves tracing of costs and revenues of	
		each product over several calendar periods throughout their life cycle. Costs and	
		revenues can analysed by time periods. The total magnitude of costs for each	
		individual product can be reported and compared with product revenues	
		generated in various time periods.	
		(2) Overall Cost Analysis: Production Costs are accounted and recognized by the	
		routine accounting system. However non-production costs like R&D design;	
		marketing; distribution; customer service etc. are less visible on a product — by —	
		product basis. Product Life Cycle Costing focuses on recognizing both production	
		and non-production costs.	
		(3) Pre-production costs analysis: The development period of R&D and design is long	
		and costly. A high percentage of total product costs may be incurred before	
		commercial production begin. Hence; the Company needs accurate information	
		on such costs for deciding whether to continue with the R&D or not.	
		(4) Effective Pricing Decisions: Pricing Decisions; in order to be effective; should	
		include market considerations on one hand and cost considerations on the other.	
		Product Life Cycle Costing and Target Costing help analyze both these	
		considerations and arrive at optimal price decisions.	
		(5) Better Decision Making: Based on a more accurate and realistic assessment of	
		revenues and costs, at least within a particular life cycle stage, better decisions	
		can be taken.	
		(6) Long Run Holistic view: Product Life Cycle Costing can promote long-term	
		rewarding in contrast to short-term profitability rewarding. It provides an overall	
		framework for considering total incremental costs over the entire life span of a	
		_	
		product, which in turn facilitates analysis of parts of the whole where cost	
		effectiveness might be improved.	
		(7) Life Cycle Budgeting: Life Cycle Budgeting, i.e., Life Cycle Costing with Target	
		Costing principles, facilitates scope for cost reduction at the design stage itself.	
		Since costs are avoided before they are committed or locked in the Company is	
		benefited.	
		(8) (h) Review: Life Cycle Costing provides scope for analysis of long term picture of	
		product line profitability, feedback on the effectiveness of life cycle planning and	
		cost data to clarify the economic impact of alternatives chosen in the design,	
	I	engineering phase etc.	1

	b.	A factory has a key resource (bottleneck) of Facility A which is available for 31,300 minutes per week. The time taken by per unit of Product X and Y in Facility A are 5 minutes and 10	2
		minutes respectively. Last week's actual output was 4750 units of product X and 650 units of Product Y. Actual factory cost was Rs. 78,250. Calculate the throughput cost for the	
		week.	
		Type your answer here Throughput Cost for the week = 30,250 × Rs. 2.50 = Rs. 75,625	
		ROUGH WORK	
		Cost per Factory Minute = Total Factory Cost / Minutes Available	
		= Rs. 78,250/31,300 = Rs. 2.50	
		Standard Minutes of throughput for the week = $(4750 \times 5) + (650 \times 10) = 30,250$ minutes Therefore, throughput Cost for the week = $30,250 \times Rs$. $2.50 = Rs$. $75,625$	
	C.	D Co. manufactures and sells 7,500 units of a product. The full cost per unit is Rs. 100. The	4
		Company has fixed its price so as to earn a 20% return on an Investment of Rs. 9,00,000. Required:	
		(i) Calculate the Selling Price per unit from the above. Also, calculate the mark-up % on the Full Cost per unit.	
		(ii) If the Selling Price as calculated above represents a mark- up% of 40% on Variable Cost	
		per unit. calculate the Variable Cost per unit. (iii) Calculate the Company's Income if it had changed the Selling Price to Rs. 115. At this	
		price, the Company would have sold 6,750 units.	
		(iv) In response to competitive pressures, the Company must reduce the price to Rs.105	
		next year, in order to achieve sales of 7,500 units. The company also plans to reduce	
		its investment to Rs. 8,25,000. If a 20% return on Investment should be maintained,	
		what is the Target Cost per unit for the next year?	
		Type your answer here (i) Computation of Solling Price and mark, up % on the Full Cost per unit	
		(i) Computation of Selling Price and mark - up % on the Full Cost per unit Target Sale Price per unit = Full Cost + Target Profit = Rs.100 + 24 Rs. 124	
		So, Market – up price is 24%	
		So, Warket – up price is	
		(ii) Computation of Variable Cost per unit:	
		Above sale Price Rs. 124 = VC + 40% thereon, i.e. 140% on VC. So, Var. Cost	
		= Rs. 124/140% = Rs.89	
		(iii) Calculate the company's Income if selling price are increased	
		Present Contribution at 7,500 units = (Rs. 124 – Rs. 89) × 7,500 units = Rs. 2,62,500	
		Revised Contribution at 6,750 units = (Rs. 115 – Rs. 89) × 6,750 units = Rs. 1,75,500 Rs. 87,000	
		Hence, increase in Sale Price is not beneficial. due to reduction in Contribution by Rs. 87,000	
1	1	(iv) Calculate the company's Target Profit if selling price are reduced and Target cost if	
		investment is Rs. 8,25,000 Target Profit for next year = Rs. 8,25,000 ×20% /7500 units = Rs. 24 Target cost = 105 - 24 = Rs. 83/unit	

4	a. AB Cycles Ltd. has two divisions A & B. Division A produces bicycle frame and Division assembles rest of the bicycle on the frame. There is a market for subassembly and final product. Each division has been treated as a profit center. The transfer price been set at the long run average market price. The following data are available to e division:						
		Estimated selling price of the final produ Long run market price of sub assembly Incremental cost of completing sub asse Incremental cost in Division A			2, 1,	000/unit 000/unit 500/unit 200/unit	
		(i) What is the profit/ loss of the con and sales to the intermediate are on long term average price basis.			•	-	
		(ii) What should be the transfer pri between the divisions equally?	ce from	A and B if	the profit are	to be shared	
		Type your answer here (i) If Division B receives the sub asset cost of Rs. 1,500 will make the tot of Rs. 500 per unit for Division B. per unit. So it is not advisable to to average price. (ii) Rs.1350 per unit	al cost o Wherea	f product Rs. as the Compa	3,500, thereby any makes a pr	yielding a loss ofit of Rs. 300	
		ROUGH WORK	-	Ontion (a)	Ontion (b)		
		Particulars Selling price		Option (a) Rs. 2,000	Option (b) Rs. 3,000		
		Incremental cost in Divis	sion A	1,200	1,200		
		Incremental cost in Divis		1,200	1,500		
		Total Variable Cost		Rs. 1,200	2,700		
		Contribution		800	300		
		(ii) In order to keep the manager or per unit should be shared be Division B should be = Variable 50% × 300 = 122 + 150 = 1350 p	tween [cost of [Division A &	B. Hence tran	sfer price for	
	b.	A Company can produce any of its 4 produced in a production period and t production run. The production Capacit sold and there is no Inventory build-up The following information is given:	his has t ty is 1,00	to be determ 00 hours. Wh	nined at the be natever is produ	ginning of the uced has to be	4
		Particulars	А	В	С	D	
		Selling Price (Rs. Per unit)	40	50	60	70	
		Variable Cost (Rs. Per unit)	30	20	20	30	
		No. of units that can be sold	1,000		900	600	
		No. of production hours required per unit of product	1 hou	ır 1 hour and 15 minute	and 15	2 hours	
		What are the Opportunity Costs of A, B,	C and D				

	A = NIL B = NIL C = Rs.4,000 D = Rs.4,000 ROUGH WORK					
	Particulars	Α	В	С	D	
	Contribution per unit (SP-VC)	40-30 =	50-20 =	60-20 =	70-30 =	
		Rs.10	Rs.30	Rs.40	Rs.40	
	Time Required	1 Hr.	1.25 Hr.	1.25Hr.	2 Hr.	
	Possible Production Quantity (1000/2)	1000 units	800 units	800 units	500 units	
	Possible Sales Quantity	1000 units	600 units	900 units	600 units	
	Sales quantity lost due to production constraint	NIL	NIL	100 units	100 units	
	Opportunity Cost	NIL	NIL	4,000	4,000	
	 (i) The separation of costs into variable cost is completely (ii) Under the marginal cost sunderstated. After all, fixed as such, these should form correct to eliminate fixed cost. (iii) The exclusion of fixed over the cost of the c	variable nor is ystem, stock of costs are incurs a part of the osts from finish	a fixed cost com of finished good urred in order to e cost of the pr	npletely fixed ds and work- o manufacture oducts. It is,	I. in-progress are re products and therefore, not	
a.	Account and produces a adjustments are made in the (iv) In marginal costing system with changes in sales vol period to period. Monthly will not, therefore, be as re (v) During the earlier stages losses, as revealed in a mag create panic and compel to depression of the market. 'Standard Costing is used for	n unrealistic ne financial acc n, marginal con ume. Where operating stat alistic or usefu of a period of gnified way in the manageme	and conservate ounts at the encentribution and pasales are seasonements under the last in absorption of recession, the the marginal count to take action	affects the ive Balance d of the period or of the period or of the period or of the marginal on costing. It is a low profits ests statement on that may	Profit and Loss Sheet, unless od. ase or decrease fluctuate from costing system or increase in ats, may unduly lead to further	3

	units were produced in 11 batches. Find the volume and total fixed overhead variance under the traditional standard costing system. Type your answer here Fixed overhead expenditure variance = Rs. 240 (F) Fixed overhead volume variance = Rs. 240 (A)							
	ROUGH WORK	olume and total five	ed overhead under Tra	aditional Standa	ard Costing System			
		culars	Workings	aditional Stands	Amount			
	Budgeted overhead cost per unit		Rs.2,000/10,000 units	S	= Rs. 0.20			
	Actual overhea	d cost per unit	Rs.1,760/8,800 units		= Rs. 0.20			
	Total fixed over		Absorbed budgeted overhead - Actual overhead (Rs. 0.20 × 8,800 units) - Rs.1,760		= Nil			
	Fixed overhead variance	expenditure	Budgeted overhead - Actual overhead 2,000 - 1,760		= Rs. 240 (F)			
	Standard absor	ption rate	Rs. 2,000/10,000 units		s. 0.20 per unit			
	Fixed overhead variance		Standard absorption rate x = Rs. 240 (A) (Budgeted units - Actual units) Rs.0.20 (10,000 units - 8,800 units)					
•	DM is a denim brand specializing in the manufacture and sale of hand-stitched jeans trousers. DM manufactured and sold 10,000 pairs of jeans during a period. Information relating to the direct labour cost and production time per unit is as follows:							
		Actual Hours Per Unit	Standard Hours Per Unit	Actual Rate Per Hour	Standard Rate Per Hour			
	Direct Labour	0.65	0.60	Rs.120	Rs.100			

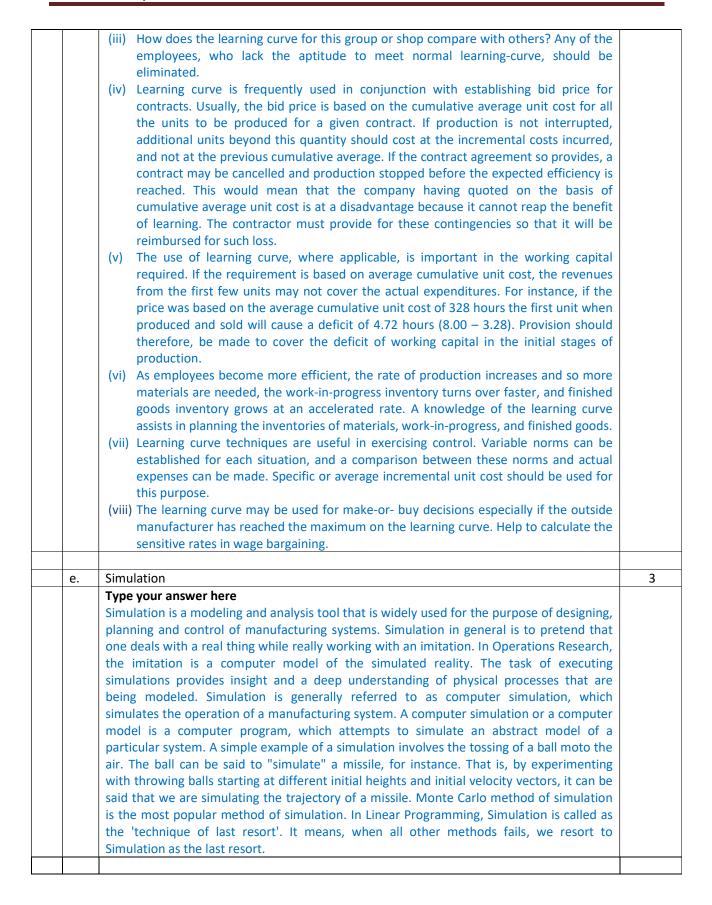
		Type your answer here (i) Idle Time Variance = Rs. 80,000 (A) (ii) Labour Efficiency Variance = Rs. 30,000 (F) ROUGH WORK (i) Idle Time Variance: Idle time variance = number of idle hours x standard rate = 800 hours × Rs. 100 = Rs. 80,000 (A)	
		(ii) Labour Efficiency Variance: Total Hours = $10,000$ units \times 0.65 hours per unit = $6,500$ hours. Active Hours = $6,500$ hours - 800 idle hours = $5,700$ hours.	
		Standard Cost of Active Hours = Active Hours × Standard Rate = 5,700 hours × Rs. 100 per hour = Rs. 5, 70,000	
		Standard Hours = 10,000 units x 0.60 hours per unit = 6,000 hours	
		Standard Cost = Standard Hours × Standard Rate = 6,000 hours × Rs. 100 per hour = Rs. 6, 00,000	
		Labour Efficiency Variance = Standard Cost of Active Hours - Standard Cost = Rs. 5, 70,000 - Rs. 6, 00,000 = Rs. 30,000 (F)	
<u>_</u>			
6.	a.	What are the problems of Traditional Costing arising out of volume-based cost allocation to products? How can Activity-Based Costing help refining such costing system?	2+4
		Type your answer here	
		Under traditional costing, overheads which occupy an important share of the total cost of the firm, are generally allocated on the basis of volume based allocation of rates. This	
		allocation can be on the basis of labour hour, machine hour, % of labour cost, etc. It does	
		not take into consideration the quantum of services actually consumed. As a result, the product cost gets distorted i.e., some products are over burdened and vice versa. The	
		basic assumption in cost allocation is; the higher the volume, the greater the share of indirect costs to the product or service. This simplistic assumption does not hold good in reality.	
		The Activity-Based Costing (ABC) is a system that focuses on activities as the fundamental	
		cost objects and uses the cost of these activities for computing the costs of products. The Activity-Based Costing refines the problems of Traditional Costing System by the following means:	
		(i) In ABC, the focus is on activities rather than products because activities in various departments may be combined and costs of similar activities ascertained, e.g., quality control, handling of materials, repairs to machines etc., If detailed costs are kept by activities, the total company costs for each activity can be obtained, analysed, planned and controlled.	
		(ii) Under ABC, activities are managed and not products. Changes in activities lead to changes in costs. Therefore, if the activities are managed well, costs will fall and the resulting products will be more competitive.	
		(iii) Allocating Overhead Cost to production based on a single cost driver can result in an unrealistic product cost because the traditional system fails to capture cause-and-effect relationships. To manage activities better and to make wiser economic decisions, managers need to identify the relationships of causes (activities) and effects (costs) in a more detailed and accurate manner.	

	detailed anal on product of Costing can I distorts cost decisions e.g. ABC differs from the indirect costs. Direct	ts problem areas that deserve may sis. Many actions are possible, or lesign, on operational movements ead to under costing or over costing information. This distorted information pricing, product emphasis, make one traditional system only in respect Costs are identified with, or assigned case of traditional costing system.	n pricing, on process technology, and on product mix. Traditional ng of products or services which tion leads to inappropriate crucial r buy etc. It of allocations of overheads or ad to, the cost object, in the same				
b.	involve intricate labor that this type of pro- wages rate of Rs. 12 p (i) What is the total (ii) If a repeated ord	order to make and supply eight user operations. The first unit was maduction is subject to 80% learning ser hour. Itime and labour cost required to exert of 24 units is also received from sary for the second order?	ade in 10 hours. It is understood rate. The workers are getting a ecute the above order?	2+2			
	Type your answer her						
	(i) Labour time required for first eight units =40.96 hours Labour cost required for 8 units= Rs. 491.52						
	(ii) Labour time required for 2nd order for 24 units = 63.90 hours						
	Labour cost for 24 units = Rs. 766.80						
	ROUGH WORK						
	Production (Units)	Cumulative Average Time (hours	Total Time (hours)				
	1	10	10				
	2	8	16				
	4	6.4	25.6				
	8	5.12	40.96				
	16	4.096	65.54				
	32	3.2768	104.86				
	Labour time required for first eight units = 40.96 hours Labour cost required for 8 unit = 40.96 hour × Rs. 12/hr Rs. 491.52 Labour time for 32 units = 104.86 hours Labour time for first eight units = 40.96 hours Labour time required for 2nd order for 24 units = 63.90 hours Labour cost for 24 units = 63.90 hours × Rs. 12/hr = Rs. 766.80						
c.	If the direct labour cost is reduced by 20% with every doubling of output, what will be the cost of labour for the sixteenth unit produced as an approximate percentage of the cost of the first unit produced?						
	Type your answer her 40.96%	re					
	ROUGH WORK						
	1 st	100%					
	2 nd						
	4 th						
	8 th						
	16t	h 80% of 8th = 0.80 × 0.80 >	× 0.80 × 0.80 = 40.96%				

	a.	Write the steps to be followed in appl transportation problem .	ying Vogel's A	pproximation N	/lethod for solv	ing	4
		Type your answer here					
		Vogel's Approximation Method met	hod is prefer	red because tl	ne initial basic	feasible	
		solution obtained is either optimum of	or very close to	the optimum	solution. There	fore, the	
		amount of time required to arrive a	t the optimur	m solution is g	reatly reduced	. Various	
		steps of this method are summarized					
		Step 1: Compute a penalty for each penalty for a given row and column	is merely the	difference bet			
		and the next smallest cost in that part Step 2: Identify the row or column			this identified	d row or	
		column, choose the cell which has th	_				
		quantity to the lowest cost cell in that				-	
		a particular source or satisfy demand			idst citrici the .	supply at	
		If a tie occurs in the penalties, select t			ninimum cost. I	f there is	
		a tie in the minimum cost also, select					
		assignments. It will considerably reduce	ce computatio	nal work.			
		Step 3: Reduce the row supply or the					
		Step 4: If the row supply is now zero					
		zero, eliminate the column, if both	the row supp	ly and the col	umn demand a	are zero,	
		eliminate both the row and column.		. Caralla a calla			
		Step 5: Recomputed the row and columniation			ed transportati	on table,	
		omitting rows or columns crossed out	•		ries are exhaus	sted to	
		Step 6: Repeat the above procedure usatisfy demand at different warehouse	intil the entire		ries are exhaus	sted to	
		Step 6 : Repeat the above procedure usatisfy demand at different warehouse	intil the entire es.	supply at facto			
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to define the control of the control	etermine how	many advertis	ements to place	ce in the	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A,	etermine how B and C. His	many advertisobjective is to	ements to place	ce in the	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal is	etermine how B and C. His buyer of exp	many advertisobjective is to	ements to place advertise in succession succession	ce in the ch a way aximised.	4
_	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal I Percentages of readers for each magazines.	etermine how B and C. His buyer of expanding are known	many advertis objective is to pensive sports on. Exposure in	ements to place advertise in suc goods is ma any particular r	ce in the ch a way aximised.	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal is	etermine how B and C. His buyer of expanding are known	many advertis objective is to pensive sports on. Exposure in	ements to place advertise in suc goods is ma any particular r	ce in the ch a way aximised.	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal I Percentages of readers for each magais the number of advertisements place.	etermine how B and C. His buyer of expanding are known	many advertis objective is to pensive sports on. Exposure in	ements to place advertise in suc goods is ma any particular r	ce in the ch a way aximised.	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal I Percentages of readers for each magains the number of advertisements place following data may be used:	etermine how B and C. His buyer of expanding are known	many advertisobjective is to pensive sportson. Exposure in by the number	ements to place advertise in suc goods is ma any particular r	ce in the ch a way aximised.	4
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	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal I Percentages of readers for each magais the number of advertisements place following data may be used: Particulars	etermine how B and C. His buyer of exparine are know ed multiplied	many advertisobjective is to pensive sportson. Exposure in by the number Magazine B	ements to place advertise in surgical goods is made any particular rof principal bure.	ce in the ch a way aximised.	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal I Percentages of readers for each magais the number of advertisements place following data may be used: Particulars Readers	etermine how B and C. His buyer of exp azine are know ed multiplied A 1 lakh	many advertisobjective is to pensive sportson. Exposure in by the number Magazine B 0.6 lakh	ements to place advertise in such goods is made any particular rof principal bure.	ce in the ch a way aximised.	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal I Percentages of readers for each magais the number of advertisements place following data may be used: Particulars Readers Principal Buyer Cost per Advertisement(Rs.)	etermine how B and C. His buyer of exp izine are know ed multiplied A 1 lakh 20% 8,000	many advertisobjective is to pensive sportson. Exposure in by the number Magazine B 0.6 lakh 15% 6,000	ements to place advertise in such goods is made any particular rof principal bure. C 0.4 lakh 8% 5,000	ce in the ch a way aximised. magazine yers. The	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal Percentages of readers for each magais the number of advertisements place following data may be used: Particulars Readers Principal Buyer Cost per Advertisement(Rs.) The budgeted amount is at most Rs. 1	etermine how B and C. His buyer of exparine are knowed multiplied A 1 lakh 20% 8,000	many advertisobjective is to pensive sports in. Exposure in by the number Magazine B 0.6 lakh 15% 6,000	ements to place advertise in surgoods is made any particular rof principal bure. C 0.4 lakh 8% 5,000 The owner ha	ce in the ch a way eximised. magazine yers. The	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal I Percentages of readers for each magais the number of advertisements place following data may be used: Particulars Readers Principal Buyer Cost per Advertisement(Rs.) The budgeted amount is at most Rs. 1 decided that magazine A should have	etermine how B and C. His buyer of exparine are know ed multiplied A 1 lakh 20% 8,000 L lakh for the a	many advertisobjective is to pensive sports in. Exposure in by the number Magazine B 0.6 lakh 15% 6,000 advertisements in 15 advertiseria.	ements to place advertise in surgoods is made any particular rof principal bure. C 0.4 lakh 8% 5,000 The owner haments and that	ce in the ch a way eximised. magazine yers. The	4
	b.	Step 6: Repeat the above procedure usatisfy demand at different warehouse. The owner of M Sports wishes to deselected three monthly magazines A, that total exposure to principal I Percentages of readers for each magais the number of advertisements place following data may be used: Particulars Readers Principal Buyer Cost per Advertisement(Rs.) The budgeted amount is at most Rs. 1 decided that magazine A should have C each should have at least 8 advertions.	etermine how B and C. His buyer of exp rizine are know ed multiplied A 1 lakh 20% 8,000 L lakh for the a not more tha sements. Pres	many advertisobjective is to pensive sports in. Exposure in by the number Magazine B 0.6 lakh 15% 6,000 advertisements in 15 advertiseria.	ements to place advertise in surgoods is made any particular rof principal bure. C 0.4 lakh 8% 5,000 The owner haments and that	ce in the ch a way eximised. magazine yers. The	4
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bas 0 at 15 at tim seq esti	is. The ind 80 m and 40 ind e of thuences	nter-arrivalinutes, whinutes. The doctor of randoter-arrival	val time ovhile their What is t r using s m numbe al times a	f the partice service the average imulations. The	e time is age wai on? Car number	known known ting time try out to be the try out to be the try out to be try ou	to be to be of th the si een s	uniforr uniforr ne pation mulation elected	mly dis mly dis ent and on usi d betw	tribute tributed the a ng the een 00	ed betweed between the between	ween ween e idle wing 80 to
	Serie	es 1 C	7 21	12	80	08	03	32	65	43	74	
	Serie	es 2 2	3 37	16	28	30	18	25	34	19	21	
	Average waiting time of patient = 12.9 minutes Average waiting time of doctor = 11.5 minutes ROUGH WORK Simulation of data at village dispensary											
	lo. of	Inter	Entr		ervice	Service		End	Wai	ting	Idle t	ime
11	itients	arrival	II	'	Time	Start		time	tim	_	of do	l l
		Time	to		andom	time		(hrs)	pati		(minu	l l
		Randor	n quei	ıe	No.	(hrs)			(minutes)		(
		No. (minute			inutes)							
	1	07	8.0	7	23	8.07		8.30		-	0	7
	2	21	8.2	8	37	8.30		9.07	2	2	-	
	3	12	8.4	0	16	9.07		9.23	2	7	-	
	4	80	10.0		28	10.00		0.28			37	7
	5	80	10.0		30	10.28		.0.58		0	-	
	6	03	10.1		18	10.58	_	1.16	4		-	
	7	32	10.4		25	11.16		1.41	3	3	-	
	8	65	11.4		34	11.48		2.22	-	-	07	
	9			12.31	_	12.50			09			
	10 74 01.45 21 01.45 02.06 - 55 Total(in minutes) 129 115											
		latina na latina		•		Landan et e					- 11	
		_	of patien of doctor									

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Business Process Re-engineering (BPR) refers to the fundamental rethinking and redesign of business processes to achieve improvement in critical measures of performance such as cost, quality, service, speed and customer satisfaction. In contrast the concept of Kaizen, which involves small, incremental steps towards gradual improvement, re-engineering involves a giant leap. It is the complete redesign of a process with an emphasis on finding creative new way to accomplish an objective. It has been described as taking a blank piece of paper and starting from scratch to redesign a business process. Rather than searching continually for minute improvement, reengineering involves a radical shift in thinking about how an objective should be met. Re-engineering prescribes radical, quick and significant change. Admittedly, it can entail high risks, but it can also bring big rewards. These benefits are most dramatic when new models are discovered for conducting business.	
Treatment of Variances in cost accounts	3
Type your answer here In Standard Cost Accounting Systems, which contain both actual and standard costs in the accounting records and financial statements, the question of adjustment of the cost variances at the end of the accounting period arises. Three methods of disposal of variances and the advantages and disadvantages of each are discussed below: 1. Transfer to Profit and Loss Account. 2. Allocation of Variances to Finished Stock, Work-in-Progress and Cost of Sales Account. 3. Transfer of Variances to the Reserve Account. Under the method Allocation of Variances to Finished Stock, Work-in-Progress and Cost of Sales Account, the variances are distributed over stocks of finished and partly finished products and to the cost of sales. The distribution of each variance is made to the three	3
	3
Type your answer here Six Sigma is a set of practices developed by Motorola to systematically improve process by eliminating defects. A defect is defined as non conformity of a product or service to its specifications. The term six Sigma refers to the ability of highly capable processes to produce output with specifications. In particular, processes that operate with six sigma quality produce at defect levels below 3.4 defects per million opportunities (DPMO). Six Sigma's implicit goal is to improve all process to that level of quality or better	
Uses of learning curve (Any 3)	3
 Type your answer here Learning curve is now being widely issued in business. Some of the uses are as follows: (i) Where applicable the learning curve suggests great opportunities for cost reduction to be achieved by improving learning. (ii) The learning curve concept suggests a basis for correct staffing in continuously expanding production. The curve shows that the work force need not be increased at the same rate as the prospective output. This also helps in proper production planning through proper scheduling of work; providing manpower at the right moment permitting more accurate forecast of delivery dates. Learning curve concept provides a means of evaluating the effectiveness of training programs. What 	3
	of business processes to achieve improvement in critical measures of performance such as cost, quality, service, speed and customer satisfaction. In contrast the concept of Kaizen, which involves small, incremental steps towards gradual improvement, re-engineering involves a giant leap. It is the complete redesign of a process with an emphasis on finding creative new way to accomplish an objective. It has been described as taking a blank piece of paper and starting from scratch to redesign a business process. Rather than searching continually for minute improvement, reengineering involves a radical shift in thinking about how an objective should be met. Re-engineering prescribes radical, quick and significant change. Admittedly, it can entail high risks, but it can also bring big rewards. These benefits are most dramatic when new models are discovered for conducting business. Treatment of Variances in cost accounts Type your answer here In Standard Cost Accounting Systems, which contain both actual and standard costs in the accounting records and financial statements, the question of adjustment of the cost variances at the end of the accounting period arises. Three methods of disposal of variances and the advantages and disadvantages of each are discussed below: 1. Transfer to Profit and Loss Account. 2. Allocation of Variances to Finished Stock, Work-in-Progress and Cost of Sales Account. 3. Transfer of Variances to the Reserve Account. Under the method Allocation of Variances to Finished Stock, Work-in-Progress and Cost of Sales Account, the variances are distributed over stocks of finished and partly finished products and to the cost of sales. The distribution of each variance is made to the three accounts on a percentage basis according to the closing balance (value) of each account. Six Sigma Type your answer here Six Sigma is a set of practices developed by Motorola to systematically improve process by eliminating defects. A defect is defined as non conformity of a product or service to its spe



	Section D	1 × 12=
	You are required to answer all the questions in this section	12
	Instructions: Each question is followed by a space where you are required to type your answer.	Marks
9.	Cosmetics dealing with eye, facial, and lip makeup category are the most prosperous	
	industry in a country. While the cosmetics industry could be relatively strong as compared	
	to other categories of consumers, the year 2020-21 has been very poor in terms of sales,	
	almost all segments of this industry have witnessed a similar kind of downfall in terms of	
	sales during COVID-19 because of closing of the offline stores at different locations	
	throughout. Cosmetics are designed to enhance one's appearance (makeup), to conceal	
	blemishes, enhance one's natural features (such as the eyebrows and eyelashes), add	
	color to a person's face and, can be used to change the appearance of the face entirely to	
	resemble a different person, creature or object. The cruelty-free (no animal testing),	
	vegetarian (no byproducts of animal slaughter), and vegan (no animal ingredients at all)	
	beauty market has exploded in recent years globally and has been finding its space in this	
	country's market too. Moreover, with the advancement of vegan products in the country,	
	Country consumers are paying extra attention to not only a particular shade of lipstick	
	that suits them but also about how the lipstick is made. Furthermore, the increasing	
	adoption of the vegan lifestyle and the growing health concerns about the	
	negative impact of petroleum-based ingredients are driving the demand for vegan	
	cosmetics. With the increasing internet penetration, the online market for the purchase of consumer goods has seen rapid growth in the last 3-4 years in Country.	
	With the rise in the adoption of western culture, the colour cosmetics market is one of the	
	fastest-growing markets in Country. As the aesthetic appeal in the young generation is	
	rising, the penetration of colour cosmetics products in the Country market is increasing.	
	Country is estimated as one of the fastest-growing countries, in terms of color cosmetics,	
	in the Asian region. Country companies are venturing into organic colour cosmetics, due	
	to its increasing demand, among the more affluent sections of the society. Furthermore,	
	the rising beauty consciousness among individuals, the influence of social media,	
	and inflating income levels are increasing the preference for customized, organic,	
	and premium product variants, which is offering lucrative growth opportunities to	
	leading market players operating in the country. In addition, physical store	
	retailers are adopting innovative strategies, such as housing beauty studios with	
	personalized beauty advisors, to drive customer's engagement and improve their	
	shopping experience.	
	Particulars A B C D	
	Variable cost of production per unit Rs.130 Rs.100 Rs.90 Rs.85	
	Labour hour required per unit 3 4 2 3	
	Market price per unit Rs.150 Rs.146 Rs.140 Rs.130	
	Anticipated growth in the market can be attributed to growing disposable income leading	
	to increasing purchasing power of the people. Emergence of online retail and increasing	
	inclination of youth towards skin care and other grooming products is another key factor	
	which is expected to drive the cosmetics market during the forecast period. Moreover,	
	rising consumer awareness and preference to buy advanced skin care products which not	
	only make them look beautiful but also enhance their skin type is also leading to huge	
	demand for cosmetics products. Leading companies are working on bring more innovative	
	products which suits the demand of the consumers. The increasing focus on personal	
	health and hygiene represents one of the major factors influencing the demand for	
	beauty and personal care products in Country.	

	S Ltd. has three different divisions namely X terms of their performance. Among all the oppoduces four products namely A, B, C and D. also. Few relevant information are extracted w After market survey and present requirement the product of Division Z can be transferred to might be required for transfer is 2,500 units of The maximum sales in the external market are units for C and 1,600 units for D. As there is no internal agreement between maximize the profit as well as wealth, Division slightly cheaper rate of Rs.125 per unit instead division Z.	divisions, E Each produ hich are ex it was reve o division Y D. e 2,800 unit the division Y can p	Division Z act is sold pressed be ealed that but the m ats for A; 2, ons and courchase t	is profit of in the extelow: product Enaximum of 500 units overall obtained in the same	center whiternal mark can amongst quantity the for B; 2,3 pjective is product at	all nat
a.	Which is the most preferred product and why ?)				2
	Type your answer here The product C is most preferred product as company can enjoy. ROUGH WORK	maximum	contribut	ion per h	nour (Rs. 2	25)
	Product	A (Rs.)	B (Rs.)	C (Rs.)	D (Rs.)	
	Market price per unit	150	146	140	130	
	Less: Variable cost of Production per unit	130	100	90	85	
	Contribution per unit	20	46	50	45	
	Contribution per hour	6.66	11.50	25	15	
	Ranking	IV	III	I	Ш	
	From the above table, it is clear that product contribution company can enjoy.	C is most	preferred	product	as maximu	ım
b.	Imagine yourself that you are financial adviso optimum product mix when total available hou (i) 20,000 hours and (ii) 30,000 hours Type your answer here For 20,000 hrs.:			ailed stud	dy, show t	he 4
	Product C= 2,300 units produced and 4,600 hou Product D=1,600 units produced and 4,800 hou Product B=2,500 units produced and 10,000 ho Product A=600 units produced and 600 hours units produ	urs used ours used				
	For 30,000 hrs.: Product C= 2,300 units produced and 4,600 hou Product D=1,600 units produced and 4,800 hou Product B=2,500 units produced and 10,000 ho Product A=2,800 units produced and 8,400 hou	urs used ours used				

Produ	ct Max	Hrs./	Fo	r 20,000 h	rs.	For	30,000 hr	rs.
	Demand	unit	Unit	Hour	Balance	Unit	Hour	Balance
	(units)		produced	used	hours	produced	used	hours
С	2,300	2	2,300	4,600	15,400	2,300	4,600	25,400
D	1,600	3	1,600	4,800	10,600	1,600	4,800	20,600
В	2,500	4	2,500	10,000	600	2,500	10,000	10,600
Α	2,800	3	200	600	NIL	2,800	8,400	2,200
uni (ii) Whe	duction of 1, s of product n 30,000 ho luct D for div	B (200 u ours are ision Y is	inits x 3 hou available: s 7,500 hou	rs = 600 ho The requi	ours) red time f quirement	or producii	ng 2,500 le to the e	units of extent of
rem unit	aining require s of product A	ement o	f 5,300 hou	rs can be m	nade by sac	rificing the	output of	1766.66
rem unit	aining require	ement o	f 5,300 hou	rs can be m	nade by sac	rificing the	output of	1766.66
. In your availab	opinion, whatle hours is 20 pur answer h	at should 0,000 ho	d be the trai	rs can be m	for each ur	rificing the	output of	1766.66
In your availab	opinion, whatle hours is 20 our answer her price of 2,5	ement of A. at should 1,000 ho ere 00 units	d be the traiurs?	nsfer price D= Rs.2,95	for each ur	rificing the	output of	1766.66
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Type your answer here		
Transfer price of 2,500 units of product D =	= Rs.2,47,833.20	
Transfer price of Per unit of product D = Rs	s. 99.13	
ROUGH WORK		
Statement showing of fixation of transfe	er price for each unit for 2,50	0 units of D when
30000 hou	urs are available	
Transfer price	2,500 units of product D (Rs.)	Per unit of product D (Rs.)
Variable cost (2,500 units x Rs.85)	2,12,500	85
Opportunity cost of contribution foregone by not producing 1,766.66 unit of A (1,766.66 units × Rs.20)	35,333.20 ts	14.13
Transfer Price	2,47,833.20	99.13

END