# 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.

Instr	ruction		Section A  You are required to answer all the questions. Each question carries 1 mark.  question is followed by 4 Answer choices and only one is correct. You are require the choice which according to you represents the correct answer.	ed to select	20 X 1 = 20 Marks
1.	a.	Sellir Mate Conv Time	pany B uses a throughput accounting system. The details of product X per unit are any Price is Rs. 50 Perial Cost is Rs. 16 Persion Costs is Rs. 20 On bottle neck resource is 8 minutes	as follows:	
		_	t is the return per hour for product X?		
		(i)	Rs.105		
		(ii)	Rs.225	Α	
		(iii)	Rs.255		
		(iv)	Rs.375		
	b.		n you wait until the manufacture of a product has been completed and then reco		
		(i)	Forensic Accounting	Α	
		(ii)	Back-flush Accounting		
		(iii)	Tax Accounting		
		(iv)	Lean Accounting		
	C.	Life (	Cycle Cost considers		
		(i)	Cradle to grave cost	Α	
		(ii)	Only Future Cost		
		(iii)	Only present cost		
		(iv)	None of the above		
	d.	Back	-Flush costing is most likely to be used when:		
		(i)	Management desires sequential tracking of costs		
		(ii)	A Just-in-time inventory philosophy has been adopted	Α	
		(iii)	The company carries significant amount of inventory		
		(iv)	Actual production costs are debited to work-in-progress		
	e.	and	. manufactures 4 products W, X, Y and Z with sales value mix of 33\\%, 41\\%, 16\\epsilon\variable cost of 60\%, 68\%, 80\% and 40\% of selling price respectively, Budgeted sa 0,000. Overall P/V ratio is:		

	(ii)	35%				Α	
	(iii)	37%					
	(iv)	32%					
f.		has earned a net profit of espectively. What is the to			gin of safety are 2	5% and	
	(i)	Rs.25,000					
	(ii)	Rs.50,000					
	(iii)	Rs.1,00,000				Α	
	(iv)	Rs.2,00,000					
g.	Durir whic incur	uses JIT and back flush March 2022, 10,000 ur includes materials of Red.	its were produced and s. 60. During March 20	sold. The standard 022, Rs. 9,90,000 o	I cost per unit is of conversion cost	Rs. 150	
	(i)	Rs.14,00,000					
	(ii)	Rs.14,80,000					
	(iii)	Rs.15,90,000				Α	
	(iv)	Rs.16,20,000					
						•	
h.	<i>A</i> E C	ollowing tasks are associat Allocation of Costs to p Identification of cost po Identification of cost dr Calculation of pool rate roper order of the preced	roducts ools ivers s				
	(i)	C,B,D,A				Α	
	(ii)	A,B,C,D					
	(iii)	C,D,B,A					
	(iv)	D,C,B,A					
	` '	7-7-7				l	
i.	trans	oup has two divisions, Derred to Division Q. The it hally each year. The costs of Particulars	em has no external mar	ket and 6000 units			
		Variable Cost	Rs. 100 per unit	Rs. 120 per unit			
		Fixed cost each y	· ·	Rs. 90,000			
		Office management decide to Division P. What shou	ded that a transfer pric	e should be set tha	t provides a profi	t of Rs.	
	(i)	Rs. 145	·				
	(ii)	Rs. 125				Α	
	(iii)	Rs. 120					
	(iv)	Rs. 135					
j.	The l	igher the actual hours wo	rked	•			
	(i)	The lower the capacity us	age ratio.				
 		· · · · · · · · · · · · · · · · · · ·	·	·			

	(ii)	The higher the capacity usage ratio	
	(iii)	The lower the capacity utilization ratio.	
	(iv)	The higher the capacity utilization ratio.	Α
			•
k.	Six Si	igma has two key methodologies. These are:	
	(i)	DMACI and DMIADV	
	(ii)	DMACI and DMAIDV	
	(iii)	DMAIC and DMAIDV	
	(iv)	DMAIC and DMIADV	Α
	•		Th
I.		mpany makes components and sells internally to its subsidiary and also to external marl rnal market price is Rs.24 per component, which gives a contribution of 40% of sa	
		rnal market price is ks.24 per component, which gives a contribution of 40% of sa rnal sales, variable cost includes Rs.1.50 per unit for distribution costs. This is, howe	
		red in internal sales. There are no capacity constraints. To maximize company pro	
		sfer price to subsidiary should be:	int, the
	(i)	Rs.9.60	
	(ii)	Rs.12.90	Α
	(iii)	Rs.14.40	
	(iv)	None of the above	
	, ,		
m.	Whic	ch of the following would decrease unit contribution margin the most?	
	(i)	15% decrease in selling price	Α
	(ii)	15% increase in variable costs	
	(iii)	15% decrease in variable costs	
	(iv)	15% decrease in fixed costs	
	\A/la a	stickly conservative and of making a common set mark in a factory six on an alternative w	22 2f th 2
n.	capa	at is the opportunity cost of making a component part in a factory given no alternative u	se or the
	(i)	The variable manufacturing cost of the component	
	(ii)	The total manufacturing cost of the component) The total manufacturing cost of the	
	(,	component	
	(iii)	The total variable cost of the component	
	(iv)	Zero	Α
0.	Leari	ning curve theory is based on the idea that	
	(i)	maximum efficiency can be achieved in the beginning	
	(ii)	maximum efficiency cannot be achieved in the beginning	Α
	(iii)	maximum efficiency cannot be achieved	
	(iv)	None of the above	
p.	Linea	ar Programming is a technique for	
<u> </u>	(i)	optimization	Α
	(ii)	minimization	
	(iii)	maximization	
	(iv)	None of the above	
q.	S Ltd	. manufactures a product whose time for the first unit is 1000 hours. It experience a lear	rning

		curv	e of 80%, What will be the total time taken in hours for unit 5 to 8?		
		(i)	4096 hours		
		(ii)	3200 hours		
		(iii)	1536 hours	Α	
		(iv)	2000 hours		
	r.	Simu	ulation is		
		(i)	an analysis & modeling tool	Α	
		(ii)	manufacturing system		
		(iii)	quality control mechanism		
		(iv)	None of these		
	s.	In Le	earning Curve theory, relationship between labour cost per unit and cumulative product.	ction are	
		(i)	Directly proportional		
		(ii)	Inversely proportional	Α	
		(iii)	No relationship at all		
		(iv)	None of the above		
	t.		ch of the following is not a type of simulation?		
		(i)	Behavioral simulation		
		(ii)	Functional simulation		
		(iii)	Pareto Analysis	Α	
		(iv)	Static timing analysis		
			Section B		10 X 2 =
			You are required to answer all the questions. Each question carries 2 marks.		20 Marks
	Inst	tructio	ns: Each question is followed by a space where you are required to type your answer.		
		Ι Δ		D- 100	
2.	a.		impany has the capacity of producing 80,000 units and presently sells 20,000 units at it. The demand is sensitive to selling price and it has been observed that with every reduced.		
			i. The demand is sensitive to sening price and it has been observed that with every rediction in selling price the demand is doubled. What should be the target cost in selling pri		
			and is doubled at full capacity and profit margin on sale is taken at 25%?	ce ii tile	
			e your answer here		
		Rs. 6	•		
	b.	DBB	Ltd. produces and sells a product. The company expects the following revenues and cos	sts in	
		2021			
			enues (400 sets sold @ Rs.600 per product) Rs. 2,40,000		
			able costs Rs.1,60,000		
			d costs Rs.50,000		
			It amount of sales must DBB Ltd. have to earn a target net income of Rs. 63,000 if they heate of 30%?	nave a	
	1				<del> </del>
		Type	e your answer here		
			20,000		
		Rs.4	,20,000		
	c.	Rs.4	•	40%.	

	Type your answer here Rs. 30,00,000						
d.	PK Ltd. uses standard cos	t system. The following info	rmation pertains to direct labo	ur for Product X			
	for the month of March, 2	2021:					
	Standard rate per hour R	s. 8					
	Actual rate per hour R	s. 8.40					
	Standard hours allowed for	or actual production 2000	hours				
	Labour Efficiency variance	e Rs. 1,600 (Adverse)					
	What were the actual hou	ırs worked?					
	Type your answer here						
	2200 hours	to the direct material cost of	a company is as follows:				
e.			a company is as follows:				
	Standard price per unit R Actual quantity purchased						
		d for actual production in un	itc 1450				
	Material price variance or	·	Rs. 480				
	What is the actual purcha	•	N3. <del>1</del> 00				
	Type your answer here	se price per unit:					
	Rs.6.90 per unit						
f.	S Ltd. fixes the inter-divisional transfer prices for its products on the basis of cost plus a return on						
1.	S Ltd. fixes the inter-divisi	onal transfer prices for its p	roducts on the basis of cost plu	s a return on			
1.		· · ·	roducts on the basis of cost plu or 2022-23 appears as under:	s a return on			
1.		· · ·	or 2022-23 appears as under:	s a return on			
1.		. The budget for division X fo	or 2022-23 appears as under:	s a return on			
1.		. The budget for division X for the budget for the	Rs. 5,00,000	s a return on			
1.		The budget for division X for the budget for the budget for division X for the budget for the bu	Rs. 5,00,000 3,00,000	s a return on			
1.		. The budget for division X for Fixed Assets Current Assets Debtors	Rs. 5,00,000 2,00,000	s a return on			
1.		Fixed Assets Current Assets Debtors Annual Fixed cost of the	Rs. 5,00,000 3,00,000	s a return on			
1.		Fixed Assets Current Assets Debtors Annual Fixed cost of the	Rs. 5,00,000 3,00,000 2,00,000 8,00,000	s a return on			
1.		Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of	Rs. 5,00,000 2,00,000	s a return on			
1.		Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10	s a return on			
1.		Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10 400000 units per year	s a return on			
1.	investment in the division	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I.	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10	s a return on			
-	investment in the division	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I.	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10 400000 units per year	s a return on			
	What will be the Transfer Type your answer here	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I.	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10 400000 units per year	s a return on			
	investment in the division	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I.	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10 400000 units per year	s a return on			
	What will be the Transfer Type your answer here Rs. 12.70	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I. price for division X?	Rs. 5,00,000 3,00,000 2,00,000 10 400000 units per year 28%				
g.	What will be the Transfer  Type your answer here Rs. 12.70  A company manufactures	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I. price for division X?	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10 400000 units per year	ty-based			
	What will be the Transfer Type your answer here Rs. 12.70  A company manufactures costing to refine its existin	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I. price for division X?  and sells packaging machine in g system. Each packaging machine in g system.	Rs. 5,00,000 3,00,000 2,00,000 10 400000 units per year 28%	ty-based			
	What will be the Transfer Type your answer here Rs. 12.70  A company manufactures costing to refine its existir 50,000; 50 equipment par	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I. price for division X?  and sells packaging machine system. Each packaging mets; 12 machine hours; 15 as	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10 400000 units per year 28% es. It recently introduced activinachine requires direct materia	ty-based			
	What will be the Transfer Type your answer here Rs. 12.70  A company manufactures costing to refine its existir 50,000; 50 equipment par details about the cost poor	Fixed Assets Current Assets Debtors Annual Fixed cost of the Division Variable cost per unit of product Budgeted Volume Desired R.O.I. price for division X?  and sells packaging machine system. Each packaging mets; 12 machine hours; 15 as	Rs. 5,00,000 3,00,000 2,00,000 8,00,000 10 400000 units per year 28% es. It recently introduced activinachine requires direct materials sembly line hours and 4 inspect	ty-based			

		Machining	Machine hours	Rs. 68 per machine hour	
		Assembly	Assembly line hours	Rs. 75 per assembly hour	
		Inspection	Inspection hours	Rs. 104 per inspection hour	
		J	ı s received an order for 40 can-packa	i i	Using activity-
			hat will be the indirect costs allocate		
		Type your answe	er here		
		Rs. 1,10,280			
	h.	is Rs. 20 per hou	s a 90% learning curve and the first r. How much should the second unit	•	The labour cost
		Rs. 53.09	er here		
	i.	What is interferi	ng float in the context of critical patl	n analysis?	
		Type your answe	er here		
		Interfering float	is that part of the total float which	causes a reduction in the float o	of the successor
			he difference between the latest f		uestion and the
		earliest starting t	time of the following activity or zero	, whichever is larger.	
		L. DEDT	de the contrate the tree for a contrate t		
	j.		rk, the optimistic time for a particula at is the standard deviation for the a		ssimistic time
		Type your answer		ctivity:	
		21-9)/6=2 weeks			
		213// 0 2 Weeks			
			Section C		12 X 4 =
		You are	required to answer any 4 out of 6	questions in this section.	48 Marks
	Inst	ructions: Each que	estion is followed by a space where	you are required to type your a	newer
		•	· · · · · · · · · · · · · · · · · · ·	/ - · · · · · · · · · · · · · · · · · ·	aliswei.
3.	a.	Z Ltd. manufactu	rers tablet batteries. The company i	s preparing a product life cycle I	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company i ery. Development on the new batte	s preparing a product life cycle I	budget for a
3.		Z Ltd. manufactu	rers tablet batteries. The company i ery. Development on the new batte llows:	s preparing a product life cycle l ry is to start shortly. Estimates fo	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company i ery. Development on the new batte llows: Life cycle units manufactured and	s preparing a product life cycle bry is to start shortly. Estimates for	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company i ery. Development on the new batte llows:  Life cycle units manufactured and Selling price per battery	s preparing a product life cycle l ry is to start shortly. Estimates fo	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company i ery. Development on the new batte llows: Life cycle units manufactured and	s preparing a product life cycle bry is to start shortly. Estimates for	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batte llows:  Life cycle units manufactured and Selling price per battery  Life cycle costs:	s preparing a product life cycle by is to start shortly. Estimates for sold 2,00,000 Rs. 55	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batte llows:  Life cycle units manufactured and Selling price per battery  Life cycle costs:  R&D and Design cost	s preparing a product life cycle by is to start shortly. Estimates for sold 2,00,000 Rs. 55	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batte llows:  Life cycle units manufactured and Selling price per battery  Life cycle costs:  R&D and Design cost  Manufacturing:	s preparing a product life cycle by is to start shortly. Estimates for sold 2,00,000 Rs. 55	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batte llows:  Life cycle units manufactured and Selling price per battery  Life cycle costs:  R&D and Design cost  Manufacturing:  Variable cost per battery  Variable cost per batch  Battery per batch	s preparing a product life cycle by is to start shortly. Estimates for sold 2,00,000 Rs. 55  Rs. 8,00,000	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batter llows:  Life cycle units manufactured and Selling price per battery Life cycle costs: R&D and Design cost Manufacturing: Variable cost per battery Variable cost per batch Battery per batch Fixed costs	s preparing a product life cycle by is to start shortly. Estimates for sold 2,00,000  Rs. 55  Rs. 8,00,000  Rs. 25  Rs. 300	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batte llows:  Life cycle units manufactured and Selling price per battery Life cycle costs: R&D and Design cost Manufacturing: Variable cost per battery Variable cost per battery Variable cost per batch Battery per batch Fixed costs Marketing	s preparing a product life cycle by is to start shortly. Estimates for sold  2,00,000  Rs. 55  Rs. 8,00,000  Rs. 25  Rs. 300  250  Rs. 12,00,000	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batter llows:  Life cycle units manufactured and Selling price per battery Life cycle costs:  R&D and Design cost Manufacturing: Variable cost per battery Variable cost per batch Battery per batch Fixed costs Marketing Variable cost per battery	s preparing a product life cycle is to start shortly. Estimates for sold 2,00,000  Rs. 55  Rs. 8,00,000  Rs. 25  Rs. 300  250  Rs. 12,00,000  Rs. 3.50	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batter llows:  Life cycle units manufactured and Selling price per battery Life cycle costs: R&D and Design cost Manufacturing: Variable cost per battery Variable cost per batch Battery per batch Fixed costs Marketing Variable cost per battery Fixed costs	s preparing a product life cycle by is to start shortly. Estimates for sold  2,00,000  Rs. 55  Rs. 8,00,000  Rs. 25  Rs. 300  250  Rs. 12,00,000	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batte flows:  Life cycle units manufactured and Selling price per battery Life cycle costs: R&D and Design cost Manufacturing: Variable cost per battery Variable cost per batch Battery per batch Fixed costs Marketing Variable cost per battery Fixed costs Distribution:	s preparing a product life cycle bry is to start shortly. Estimates for sold  2,00,000  Rs. 55  Rs. 8,00,000  Rs. 25  Rs. 300  250  Rs. 12,00,000  Rs. 3.50  Rs. 8,00,000	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batter llows:  Life cycle units manufactured and Selling price per battery Life cycle costs: R&D and Design cost Manufacturing: Variable cost per battery Variable cost per batch Battery per batch Fixed costs Marketing Variable cost per battery Fixed costs Distribution: Variable cost per battery	s preparing a product life cycle in the start shortly. Estimates for sold 2,00,000  Rs. 55  Rs. 8,00,000  Rs. 25  Rs. 300  250  Rs. 12,00,000  Rs. 3.50  Rs. 8,00,000  Rs. 3.50  Rs. 8,00,000	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batter llows:  Life cycle units manufactured and Selling price per battery Life cycle costs: R&D and Design cost Manufacturing: Variable cost per battery Variable cost per batch Battery per batch Fixed costs Marketing Variable cost per battery Fixed costs Distribution: Variable cost per battery Battery per batch	s preparing a product life cycle in the start shortly. Estimates for sold 2,00,000 Rs. 55  Rs. 8,00,000  Rs. 25  Rs. 300  250  Rs. 12,00,000  Rs. 3.50  Rs. 8,00,000  Rs. 140  100	budget for a
3.		Z Ltd. manufactu new type of batt	rers tablet batteries. The company is ery. Development on the new batter llows:  Life cycle units manufactured and Selling price per battery Life cycle costs: R&D and Design cost Manufacturing: Variable cost per battery Variable cost per batch Battery per batch Fixed costs Marketing Variable cost per battery Fixed costs Distribution: Variable cost per battery	s preparing a product life cycle bry is to start shortly. Estimates for sold  2,00,000  Rs. 55  Rs. 8,00,000  Rs. 25  Rs. 300  250  Rs. 12,00,000  Rs. 3.50  Rs. 8,00,000  Rs. 4,60,000	budget for a

)	What is the Estimate of Total Cost, Revenue and Operating In Type your answer here			
	Estimated Total Cost = Rs.98,20,000			
	Estimated Revenue = Rs. 11,00,000			
	Estimated Operating Income = Rs.11,80,000			
	ROUGH WORK			
	Statement of Budgeted Life Cycle Rev	venue and Co	st	
	Particulars	Rs.	Rs.	
	Pre-manufacturing Costs:			
	R&D and Design Cost	8,00,000		
			8,00,000	
	Manufacturing Costs:			
	Variable Cost of Battery (25 × 2,00,000)	50,00,000		
	Variable Cost of Batches (300 × 2,00,000/250)	2,40,000		
	Fixed Cost	12,00,000		
		, ,	64,40,000	
	Marketing Costs:		0.1,10,000	
	Variable Costs of Battery (3.5 × 2,00,000)	7,00,000		
	Fixed Cost	8,00,000		
	TIXCU COST	8,00,000	15.00.000	
	Distribution Costs		15,00,000	
	Distribution Costs:	2.00.000		
	Variable Cost (140 × 2,00,000/100)	2,80,000		
	Fixed Cost	4,60,000		
			7,40,000	
	Customer Service Costs:			
	Variable Cost (1.7 × 2,00,000)	3,40,000		
			3,40,000	
	Estimated Total Cost		98,20,000	
	Estimated Operating Income (Balancing Figure)		11,80,000	
	Estimated Revenue (55 x 2,00,000)		1,10,00,000	
)	Express the R&D design cost as a percentage of total product			

		Type your answer here			
		8.14%			
		ROUGH WORK			
		Budgeted product life cycle costs for R&D and design	Rs. 8,00,000		
		Total budgeted life cycle product costs	Rs. 98,20,000		
		Percentage of budgeted product life cycle cost incurred			
		Till the R&D and design	Rs. 8,00,000/98,20,000 =	= 8.14%	
	b.	What is Kaizen Costing?			2
		Kaizen Costing refers to the ongoing continuous impr reduction of waste in the production process, thereby targets specified during the design phase. It is a Japanese t that can be used subsequent to issuing a new product desi	further lowering costs be erm for a number of cost re	low the in	itial
4.	a.	X Ltd. manufactures and sells a special component. It follo	ows a Standard Marginal C	osting syste	em.
4.	a.	For the year ended 31.03.2021, it produced 1500 components components. Out of the production 100 components were of the financials could not be retrieved. However, the C information:	ents against a budgeted ca e scrapped. Due to a compu	pacity of 20 uter virus me the follow	000 lost
4.	a.	For the year ended 31.03.2021, it produced 1500 compone components. Out of the production 100 components were of the financials could not be retrieved. However, the C information:  Particulars	ents against a budgeted ca e scrapped. Due to a compu	pacity of 20 uter virus method the follow	000 lost
4.	a.	For the year ended 31.03.2021, it produced 1500 compone components. Out of the production 100 components were of the financials could not be retrieved. However, the C information:  Particulars  Selling Price per component	ents against a budgeted ca e scrapped. Due to a compu	pacity of 20 uter virus me the follow Rs.	000 lost
4.	a.	For the year ended 31.03.2021, it produced 1500 compone components. Out of the production 100 components were of the financials could not be retrieved. However, the C information:  Particulars  Selling Price per component  Direct materials total cost	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave	pacity of 20 uter virus method the follow	000 lost
4.	a.	For the year ended 31.03.2021, it produced 1500 componed components. Out of the production 100 components were of the financials could not be retrieved. However, the Component information:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80)	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave	rpacity of 20 ater virus me the follow Rs.  213  84,000	000 lost
4.	a.	For the year ended 31.03.2021, it produced 1500 componed components. Out of the production 100 components were of the financials could not be retrieved. However, the Component information:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave	Rs. 213 84,000 ?	000 lost
4.	a.	For the year ended 31.03.2021, it produced 1500 compone components. Out of the production 100 components were of the financials could not be retrieved. However, the C information:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component  Variable Selling overhead per component	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave	rpacity of 20 ater virus me the follow Rs.  213  84,000  ?  15	000 lost
4.	a.	For the year ended 31.03.2021, it produced 1500 componed components. Out of the production 100 components were of the financials could not be retrieved. However, the Component information:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave	Rs. 213 84,000 ?	000 lost
4.	a.	For the year ended 31.03.2021, it produced 1500 compone components. Out of the production 100 components were of the financials could not be retrieved. However, the C information:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component  Variable Selling overhead per component  Fixed Selling and Administration overheads  Fixed overhead manufacturing absorption rate per component	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave	Rs. 213 84,000 ? 15 8 48,000	000 lost
4.	a. (i)	For the year ended 31.03.2021, it produced 1500 components components. Out of the production 100 components were of the financials could not be retrieved. However, the Coinformation:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component  Variable Selling overhead per component  Fixed Selling and Administration overheads  Fixed overhead manufacturing absorption rate per combudgeted capacity)  Closing stock (200 units) (Valued at prime cost for finance)  What is the difference between the profit as per marginal of the first per marginal of the f	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave 1%)	Rs. 213 84,000 ? 15 8 48,000 30 18,000	000 lost
4.		For the year ended 31.03.2021, it produced 1500 compone components. Out of the production 100 components were of the financials could not be retrieved. However, the Component information:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component  Variable Selling overhead per component  Fixed Selling and Administration overheads  Fixed overhead manufacturing absorption rate per combudgeted capacity)  Closing stock (200 units) (Valued at prime cost for final	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave 1%)	Rs. 213 84,000 ? 15 8 48,000 30 18,000	ooot ving
4.		For the year ended 31.03.2021, it produced 1500 components components. Out of the production 100 components were of the financials could not be retrieved. However, the Coinformation:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component  Variable Selling overhead per component  Fixed Selling and Administration overheads  Fixed overhead manufacturing absorption rate per combudgeted capacity)  Closing stock (200 units) (Valued at prime cost for final What is the difference between the profit as per marginal of Type your answer here	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave 1%)	Rs. 213 84,000 ? 15 8 48,000 30 18,000	ooot ving
4.		For the year ended 31.03.2021, it produced 1500 components components. Out of the production 100 components were of the financials could not be retrieved. However, the Coinformation:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component  Variable Selling overhead per component  Fixed Selling and Administration overheads  Fixed overhead manufacturing absorption rate per component budgeted capacity)  Closing stock (200 units) (Valued at prime cost for final what is the difference between the profit as per marginal of the total prime cost for final stock of the profit as per marginal of the profit as pe	ents against a budgeted ca e scrapped. Due to a compu hief Cost Accountant gave 1%)	Rs. 213 84,000 ? 15 8 48,000 30 18,000	ooot ving
4.		For the year ended 31.03.2021, it produced 1500 components components. Out of the production 100 components were of the financials could not be retrieved. However, the Coinformation:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component  Variable Selling overhead per component  Fixed Selling and Administration overheads  Fixed overhead manufacturing absorption rate per combudgeted capacity)  Closing stock (200 units) (Valued at prime cost for final What is the difference between the profit as per marginal of Type your answer here  Difference = 21000-12,000=Rs.9,000	ents against a budgeted call scrapped. Due to a computation of the cost Accountant gave a costing and absorption cost	Rs. 213 84,000 ? 15 8 48,000 30 18,000	ooot ving
4.		For the year ended 31.03.2021, it produced 1500 components components. Out of the production 100 components were of the financials could not be retrieved. However, the Coinformation:  Particulars  Selling Price per component  Direct materials total cost  Direct labour cost per component (Actual efficiency 80 Variable Manufacturing overhead per component  Variable Selling overhead per component  Fixed Selling and Administration overheads  Fixed overhead manufacturing absorption rate per combudgeted capacity)  Closing stock (200 units) (Valued at prime cost for finance of the profit as per marginal of	ents against a budgeted call scrapped. Due to a computation of the cost Accountant gave a costing and absorption cost	Rs. 213 84,000 ? 15 8 48,000 30 18,000	ooot ving

	(2) Contribution per Unit		
	Selling	213	
	Less: Price Prime Cost	213	
	(Material + Labour)(18000/200)	( 90)	
	Less: Variable Manufacturing Overhead	(15)	
	Less: Variable Selling Overhead	(8)	
	Contribution/Unit	100	
	Contribution, onit	100	
	(3) Break Even volume (108000/100 Units) =	1,080 Units	
	(4) Total Absorption Cost / Unit (60+30+15) = 1	05	
	(Materials + Labour + Variable Manufacturing OH)		
	Profit under Marginal Costing: Contribution (1200×10	00) = 1,20,000	
	Less: Fixed Cost	1,08,000	
	Profit under Marginal Costing	12,000	
	Particulars	Profit under Absorption Costing	
	Sales (1200 Units × Rs.213)	255,600	
	Production (1500 Units × Rs.105)	202,500	
	Additional Labour cost	-	
	Less: Closing Stock (200 units x 135 p.u.)	27,000	
	(18000 given in the question)		
	Less: Scrap 100 units x 135	13500	
	Add: Under absorption of OH (500×30)	15,000	
	Add: Manufacturing Fixed OH	-	
	Total Cost of Manufacture	177,000	
	Gross Profit	78,600	
	Less: Fixed Administrative OH	48,000	
	Less: Variable Selling OH	9,600	
	Profit/(Loss)	21,000	
	·	,	
(ii)	What is the margin of safety under current sales?		2
	Type your answer here		
	Margin of Safety= Rs.12,000		
	ROUGH WORK		
	Margin of Safety= Sales- Break even sales x C/unit		
	=1,200(1,500-100-200)		
	= (1,200-1,080)100 =Rs.12,000		
L	Milest is put of module to a story		
b.	What is out of pocket costs?		2

		Type your answer here			
		This is the portion of the cost associated wi	th an activity that involve cash payr	ment to other parties,	
		as opposed to costs which do not require a		•	
		allocated costs. Out-of-Pocket Costs are ver			
		during trade recession or when a make-or-b	·	·	
		A Commonweal of the common transport of the common tra	and V. Dundunk V. rasuinas O. haur	s to madues while V	
	a.	A Company manufactures two products X requires 12 hours. In April, 2021, out of 22 and 800 units of Y were produced. The comproduce X and Y. The budgeted hours are 1 is it related to efficiency and capacity?	effective working days of 8 hours an prany employs 100 workers in prod	day. 1,200 units of X uction department to	6
		Type your answer here			
		Capacity Ratio= 113.55%			
		Efficiency Ratio = 109.09%			
		Activity Ratio = 123.87%			
		ROUGH WORK			
		Capacity Ratio = Actual Hours Worked /Bud	geted hours p.m. × 100		
		= 17,600 100 15,500 × = 113.55%	-		
		Efficiency Ratio = Standard hours of produc	tion / Actual Hours Worked ×100		
		= 19,200 100 15,500 × = 109.09%			
		Activity Ratio = Standard hours of production	on / Budgeted hours p.m. ×100		
		= 19,200 100 15,500 × = 123.87%			
		Particulars	Workings	Hours	
		Standard hours of production			
		Product X	(1,200 units x 8 hrs.)	9,600	
		Product Y	(800 units x 12 hrs.)	9,600	
		Total standard hours		19,200	
		Actual hours worked	(100 workers x 8 hrs. x 22 days)	19,200	
		Budgeted hours per month	(1,86,000 hrs./12 months)	15,500	
_	b.	G Ltd. is engaged in marketing of wide ra	nge of consumer goods. A, B and	C are the zonal sales	$\epsilon$
		officers for four zones. The company fix	es annual sales target for them	individually. You are	
		furnished with the following:			
		The standard costs of sales target in resp	pect of A, B and C are Rs. 5,00,0	000, Rs. 3,75,000, Rs.	
		4,00,000 respectively.			
		A, B and C respectively earned Rs. 29,900, F		ission at 5% on actual	
		sales effected by them during the previous			
		The relevant variances as computed by a qu		ws:	
			A B C		
		Sales Price Variance	4000(F) 6000(A) 5000(A		
		Sales Volume Variance	, , ,	· <u>)</u>	
			(A) and Favourable Variance (F)		
1		What is the amount of target sales and ma	rgin fixed in case of each of the zon	al sales officers?	

		Type your answer her	<u> </u>				
		Budgeted Sales	•				
		A = Rs.6,00,000					
		B = Rs.4,70,000					
		C = Rs.4,80,000					
		Budgeted Margin:					
		A = Rs.1,00,000					
		B = Rs. 95,000					
		C= Rs.4,80,000					
		ROUGH WORK					
			Α		В	С	
		Actual Sale	5,98,000 (29900/5%)	4,70,0	00	95,000 (470000	) -
				(23500	0/5%)	375000	
		Sales Value Variance	2000A (6000A - 4000	0 (600)	OF - 6000A)	10000F (15000)	F -
						5000A)	
		Budgeted Sales	6,00,000 (5,98,000 -		00 (470000 -	4,80,000 (4,90,0	000
			2000A)	0)		-10,000)	
		Budgeted Margin	1,00,000 (600000 -	•	0 (470000 -	4,80,000 (4,90,	000
			500000)	37500	0	-10,000)	
6.	a.		ds and cost driver volum				
		Cost Pool	Budgeted	Cost	Driver	Budgeted Volum	ne
			Overheads (Rs.)				
		Material procureme			orders	950	
		Material handling	1,80,000	+	ovements	540	
		Set-up	4,25,000		set ups	550	
		Maintenance	8,95,000		ince hours	7,500	
		Quality control	2,76,000		spection	990	
		Machinery	7,20,000		chine hours	24,000	70.000
		· · · · · · · · · · · · · · · · · · ·	luced a batch of 3,200 co	•			70,000
			000. The usage activities				set ups
		– 26, machine hours –	maintenance hours – 68! 1.770	o, materiai mo	vements – 21	, inspection – 32, s	set ups
	(i)	<u> </u>	er rates that are used f	or tracing ann	ropriate amo	unt of overheads t	to the 3
	(1)	said batch.	er rates that are used i	or tracing app	Topriate amoi	unt of overneaus	to the 3
		Type your answer here	<u> </u>				
		Material procure				71	1
		Material handing				33	
		Set-up				77.	
		Maintenance				11	
		Quality control				27	
		Machinery				30	
		ROUGH WORK					
			Computation	of Cost Driver	Rates		
			Particulars	Workings	Cost Driver	Rates	
		Ma	terial Procurement	675000/950	711		
	1			•	1		

		Materia	l Handing	18000	0/540	333		
			t-up		0/550	773	1	
			enance	895000	•	119	1	
			Control		0/990	279	_	
			ninery	720000		30		
			,	_	•		<b>」</b>	
(ii)	Ascertain the cos		components	using Acti	vity Based Co	sting.		
	Type your answer							
	Batch Cost=Rs. 6, ROUGH WORK	,31,253						
	ROUGH WORK	Com	nutation of F	Ratch Cost	of 3200 units	of SK-15		
			rticulars		mount (Rs.)	Amount (Rs.)		
		Material Co		A	illoulit (KS.)			
		Labour Cost				1,70,000		
		Prime Cost	L			2,70,000 4,40,000		
			oads			4,40,000	+	
		Add: Overh	eads ders (29 x 71	11)	20.610		-	
			ndling (21 x	-	20,619 6,993		-	
		Set-up (26 >		333)	20,098		+	
			ce (685 x 119	2)	81,515		+	
			trol (32 x 27	•	8,928		_	
		Machinery	•	3)	53,100		_	
		iviaciiiileiy	I T. / / U X JUI					
			(=,:::::::::		33,100	6 21 252	=	
		Total Cost	(_)::::::::::::::::::::::::::::::::::::		33,100	6,31,253		
					33,100	6,31,253		
			(-)::::::::::::		33,100	6,31,253		
	The manager of a	Total Cost		on the or			_	
b.	_	Total Cost	must decide		otimum mix o		nding processes of	
b.	The manager of a which the input a	Total Cost	must decide	ns are as fo	otimum mix o	f 2 possible bler	_	
b.	_	Total Cost	must decide oduction rur Inp	ns are as fo ut	otimum mix o ollows:	f 2 possible bler Itput	_	
b.	_	an oil refinery	must decide oduction rur Inp Crude A	ns are as fo ut Crude B	otimum mix o ollows: Ou Gasoline X	f 2 possible bler utput Gasoline Y	_	
b.	_	an oil refinery and output pr	must decide oduction rur Inp Crude A 6	ns are as fo ut Crude B 4	otimum mix o ollows: Ou Gasoline X	f 2 possible bler utput Gasoline Y 9	_	
b.	which the input a	an oil refinery and output pr Process 1 2	must decide oduction rur Inp Crude A 6 5	ns are as fout  Crude B  4  6	otimum mix o ollows: Ou Gasoline X 6 5	f 2 possible bler  Itput  Gasoline Y  9  5	nding processes of	
b.	which the input a	an oil refinery and output process  1 2 mount availab	must decide oduction rur Inp Crude A 6 5	ns are as fout  Crude B  4  6 A and B are	otimum mix o ollows: Gasoline X 6 5 250 units an	f 2 possible bler  Itput  Gasoline Y  9  5 d 200 units resp	nding processes of	
b.	which the input a  The maximum an demand shows th	Total Cost  an oil refinery and output pr  Process  1  2  mount availab hat at least 15	must decide oduction rur Inp Crude A 6 5 Ile of crude A	ons are as fout  Crude B  4  6 A and B are assoline X a	otimum mix o ollows: Gasoline X 6 5 250 units an	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
	The maximum andemand shows the profits per profits per profits the second shows the second shows the second shows the profits per profits per profits the second shows the secon	Process 1 2 mount availabinat at least 15 roduction run	must decide oduction rur Inp Crude A 6 5 le of crude A 60 units of gas from proces	ons are as fout  Crude B  4  6 A and B are asoline X a ass 1 and pr	otimum mix o ollows: Gasoline X 6 5 2 250 units an	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
b. (i)	The maximum and demand shows the profits per pure Applying Linear P	Programming,	must decide oduction rur Inp Crude A 6 5 le of crude A 60 units of gas from proces	ons are as fout  Crude B  4  6 A and B are asoline X a ass 1 and pr	otimum mix o ollows: Gasoline X 6 5 2 250 units an	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
	The maximum and demand shows the profits per pure Applying Linear P	Process  1 2 mount availabinat at least 15 roduction run Programming,	must decide oduction rur Inp Crude A 6 5 ole of crude A 50 units of ga from proces	ons are as fout  Crude B  4  6 A and B are asoline X a ss 1 and propertion	otimum mix o ollows: Gasoline X 6 5 2 250 units an	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
	The maximum and demand shows the profits per pure Applying Linear P	Process  1 2 mount availabinat at least 15 roduction run Programming,	must decide oduction rur Inp Crude A 6 5 ole of crude A 50 units of ga from proces	ons are as fout  Crude B  4  6 A and B are asoline X a ss 1 and propertion	otimum mix o ollows: Gasoline X 6 5 2 250 units an	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
(i)	The maximum and demand shows the profits per pure Applying Linear P	Process  1 2 mount availabenat at least 15 roduction run Programming, er here	rmust decide oduction rur Inp Crude A 6 5 Dele of crude A 50 units of gate from proces	Crude B  4  6 A and B are assoline X a ass 1 and prhe objective  4x <sub>1</sub> + 5x <sub>2</sub>	otimum mix o ollows: Gasoline X 6 5 2 250 units an	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
	The maximum and demand shows the profits per profits p	Process 1 2 mount available hat at least 15 roduction run Programming, er here action is to Managements in the	rmust decide oduction rur Inp Crude A 6 5 Dele of crude A 50 units of gate from proces	Crude B  4  6 A and B are assoline X a ass 1 and prhe objective  4x <sub>1</sub> + 5x <sub>2</sub>	otimum mix o ollows: Gasoline X 6 5 2 250 units an nd 130 units of	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
(i)	The maximum and demand shows the profits per profits p	Process  1 2 mount availabinat at least 15 roduction run Programming, er here action is to Manager here	rmust decide oduction rur Inp Crude A 6 5 Dele of crude A 50 units of gate from proces	Crude B  4  6 A and B are assoline X a ass 1 and prhe objective  4x <sub>1</sub> + 5x <sub>2</sub>	otimum mix o ollows: Gasoline X 6 5 2 250 units an nd 130 units of	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
(i)	The maximum and demand shows the profits per profits p	Process  1 2 mount availabee hat at least 15 roduction run Programming, er here action is to Manuel to Man	must decide oduction run Inp Crude A 6 5 Ile of crude A 60 units of gate from proces formulate t	Crude B  4  6 A and B are as soline X a ass 1 and prhe objective $x_1 + 5x_2$	otimum mix o ollows: Gasoline X 6 5 2 250 units an nd 130 units of	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
(i)	The maximum and demand shows the profits per profits p	Total Cost  an oil refinery and output pr  Process  1  2  mount availabe nat at least 15 roduction run  Programming, er here action is to Ma  estraints in the er here aints: + 5x₂ ≤ 250 (A	must decide oduction rur Inp Crude A 6 5 ble of crude A 60 units of ga from proced formulate the examinate Z = 4 e LP Formulate Vailable Crude	Crude B  4  6 A and B are as oline X a ass 1 and prhe objective $x_1 + 5x_2$ ation?	otimum mix o ollows: Gasoline X 6 5 2 250 units an nd 130 units of	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	
(i)	The maximum and demand shows the profits per profits p	Process  1 2 mount availabee hat at least 15 roduction run Programming, er here action is to Manuel to Man	must decide oduction rur Inp Crude A 6 5 sole of crude A 50 units of gas from proces formulate the EP Formula vailable Crue vail	Crude B  4  6 A and B are as soline X a ass 1 and prhe objective  ation?  de A) de B)	otimum mix o ollows: Gasoline X 6 5 2 250 units an nd 130 units of	f 2 possible bler  Itput  Gasoline Y  9  5  d 200 units resport gasoline Y mu	nding processes of ectively. Market st be produced.	

7.	a.	Given the following information regarding a project and the time duration of each activity:														
		Activity Preceding Activity Normal Time (days)														
			Activity	Preceding A	ctivity	NOTTI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
			В	<u> </u>			2									
			С	A												
			D	A				0								
			E	B,C				5								
			F	D,E			1	2								
								_								
	(i)	Identify the cri	tical activity of the p	project							3					
	(')	Type your answ		oroject.							<u> </u>					
			. – C – E – F = 16 + 8	+ 6 + 12 = 42	2 davs											
		ROUGH WORK			L days											
				(2)	D (10)											
			A (16)			_ F(	(12)	-100000								
				r g	7 4	A	,,	5								
			(1)	1 - (0)	1	and the same of th										
				į.	All I		1   (18)   4									
			***************************************	ž.	Mark Constitution of the C											
			B (20)		E (6)											
			B (20)	\\\ 3\\\ \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	E (6)											
			B (20)	3	E (6)											
			16 + 8 + 6 + 12 = 42		E (6)											
		A - D - F = 16	16 + 8 + 6 + 12 = 42 +10 + 12 = 38		E (6)											
			16 + 8 + 6 + 12 = 42 +10 + 12 = 38		E (6)											
	(::)	A – D – F = 16 - B – E – F = 20 +	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38	- Constant												
	(ii)	A - D - F = 16 - B - E - F = 20 + B - E - E - E - E - E - E - E - E - E -	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float f	- Constant							5					
	(ii)	A - D - F = 16 - B - E - F = 20 + F Find the total f  Type your answ	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float for the service of the ser	- Constant							5					
	(ii)	A - D - F = 16 - B - E - F = 20 + Find the total f Type your anso Total Float: 0-4	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 float and free-float f wer here 1-0-4-0-0	- Constant							5					
	(ii)	A - D - F = 16 - B - E - F = 20 + Find the total f Type your ans Total Float: 0-4 Free Float: 0-4	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float for the second	- Constant							5					
	(ii)	A - D - F = 16 - B - E - F = 20 + Find the total f Type your anso Total Float: 0-4	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float for the series of the series	- Constant	vity.	for each	h acti	vity			5					
	(ii)	A - D - F = 16 - B - E - F = 20 + Find the total formal float: 0-4 Free Float: 0-4 ROUGH WORK	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float for the series of the series	or each active I float and from the second s	vity. ree float	LST L	LFT	Total Float	Free Float		5					
	(ii)	Find the total for Type your answord Float: 0-4  ROUGH WORK	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float for the second	or each activ	vity. ree float	LST L			Free Float		5					
	(ii)	A - D - F = 16 - B - E - F = 20 + Find the total formal float: 0-4 Free Float: 0-4 ROUGH WORK	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float for the series of the series	or each active I float and from the second s	vity.  ree float  EFT   I	LST L	LFT	Total Float			5					
	(ii)	Find the total f  Type your ansorm Total Float: 0-4  ROUGH WORK  Activity A	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float f wer here 1-0-4-0-0 -0-4-0-0 ( Tota Normal time (Day 16	I float and fr	vity.  ree float  EFT   I  16   20	LST L 0 :	LFT 16	Total Float 0	0		5					
	(ii)	Find the total from the total float: 0-4  Free Float: 0-4  ROUGH WORK  Activity  A  B	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float fine wer here 1-0-4-0-0 -0-4-0-0 Tota  Normal time (Day 16 20)	I float and fr	vity.  ree float  EFT   1  16  20  24	LST L 0 : 4 : 16 :	16 24	Total Float  0 4	0 4		5					
	(ii)	Find the total f  Type your ansorm Total Float: 0-4  ROUGH WORK  Activity A B C	16 + 8 + 6 + 12 = 42 +10 + 12 = 38 - 6 + 12 = 38 Float and free-float fine wer here 1-0-4-0-0 -0-4-0-0 (Common Total Normal time (Day 16 20 8	I float and fr ys) EST 0 0 16	ree float   EFT   I   16   20   24   26	LST L 0 : 4 : 16 : 20 :	16 24 24	Total Float  0  4  0	0 4 0		5					

b.		The following was the pattern for demand of cars rented out by a tourist operator observed for 100 days:							4	
		No	o. of cars		5	7	10	15		
			o. of days		20	30	40	10		
	Si	The random numbers are 88, 76, 10, 05, 23 Simulate the demand for cars over five days.								
	Fo Th	r 75% o	at least 4			n 3 days when	demand	is fulfilled i.e.	3/5 = 60%.	
	N	No. of	No. of	Probability	Cumulative	Random	Day	Random	Demand	
		cars	Days		Probability	No. Interval		No.		
		5	20	0.20	0.20	00-19	1	88	10	
		7	30	0.30	0.50	20-49	2	76	10	
		10	40	0.40	0.90	50-89	3	10	5	
		15	10	0.10	1.00	90-99	4	05	5	
							5	23	7	
				·		on any 4 out o	of 5 quest	ions.		
a.			e of Produ	ıct Life Cycle C		on any 4 out o	of 5 quest	ions.		
	Ту	pe your	e of Produ	uct Life Cycle C ere	osting (Any 3)	<u> </u>				Mark
	<b>Ty</b> Pr	pe your oduct Li	e of Produ answer he	uct Life Cycle Cere osting is consid	osting (Any 3) dered importan	on any 4 out of	lowing rea	asons	ach product	Mark 3
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	<ul> <li>(vii) 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.</li> <li>(viii) 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, engineering phase etc.</li> </ul>	
b.	Learning Curve Theory	3
	Type your answer  Learning Curve Theory is concerned with the idea that when a new job, process or activity commences for the first time, it is likely that the workforce involved will not achieve maximum efficiency immediately. Repetition of the task is likely to make the people more confident and knowledgeable and will eventually result in a more efficient and rapid operation. Eventually the learning process will stop after continually repeating the job. As a consequence the time to complete a task will initially decline and then stabilize once efficient working is achieved. The cumulative average time per unit is assumed to decrease by a constant percentage every time that output doubles. Cumulative average time refers to the average time per unit for all units produced so far, from and including the first one made.	
c.	Fixed Overhead Volume Variance	3
	Type your answer  Fixed overhead volume variance is the difference between standard costs of fixed overhead allowed for actual output and the budgeted fixed overheads for the period. This variance shows the over (or) under absorption of fixed overheads during a particular period. If the actual output is more than the budgeted output then there will be over recovery of fixed overheads and volume variance will be favorable and vice-versa.	
d.	Usefulness of Pareto analysis (Any 3)	3
	Type your answer Pareto analysis is useful to:  1. Prioritize problems, goals, and objectives to Identify root causes;  2. Select and define key quality improvement programs;  3. Select key customer relations and service programs;  4. Select key employee relations improvement programs;  5. Select and define key performance improvement programs;  6. Maximize research and product development time;  7. Verify operating procedures and manufacturing processes;  8. Product or services sales and distribution;  9. Allocate physical, financial and human resources.	
e.	Assignment	3
	Type your answer  Assignment is a special linear programming problem. There are many situations where the assignment of people or machines etc. may be called for. Assignment of workers to machines, clerks to various check-out counters, salesmen to different sales areas are typical examples of these. The Assignment is a problem because people possess varying abilities for performing different jobs and therefore the costs of performing jobs by different people are different. Thus, in an assignment problem, the question is how the assignments should be made in order that the total cost involved	

	is minimized.	
	Section D	12 Marks
lm	You are required to answer all the questions in this section.	
ins	structions: Each question is followed by a space where you are required to type your answer.	
9.	Demand for two-wheelers has gained pace since the easing of Covid-induced curbs by state governments and the momentum is expected to continue well into the festive season, said a top executive at one of the largest automobile manufacturers in the country. In the country, two-wheelers primarily include motorcycles, mopeds, scooters and electric two wheelers. Some of the key factors driving the demand of two wheelers in India include its ease of maneuvering through congested roads, lower carbon emissions, higher fuel efficiency, and providing an economical mode of transportation in comparison to three or four wheeled vehicles. Furthermore, rising urbanization, improving road infrastructure, and increasing number of women consumers are also catalyzing the demand of two wheelers in India. The market, however, faces some challenges as well. Increasing work from home practice, which does not require people to commute to work may negatively impact demand over the next few years. Furthermore, increasing petrol prices in the country may also act as a constraint for market growth, particularly, in the entry level price sensitive category. Overall, it is expected that the two-wheeler market is to revive from 2021 onwards and exhibit moderate growth during 2021-2026.  Vehicle's exhaust system is designed to take care of toxic emissions automobiles produces. It will direct harmful hydrocarbons away from the driver and passengers, and reduce the air pollutants automobiles releases into the environment, helping keep the air clean. An additional benefit is that the exhaust system significantly reduces the amount of noise automobiles produce. An exhaust system in working order will keep automobiles sounding pleasant as it runs and will reduce noxious gases. Motorcycle exhaust system also known as muffler is made to route exhaust gases away from the engine. As fuel burn inside the engine gases and fumes are produced, so this gases and fumes need to be taken out from the engine. The exhaust system does the work. The muffler also	
	regulating engine noise. Some are made to create specific sounds to certain motorcycles. Silencer has to muffle the vibrations of the exhaust gases, reduce their velocity and thus reduce the amount of noise emitted from the engines. The pulsating low from each cylinder's exhaust process of an automobile petrol or diesel engine sets up pressure waves in the exhaust system-the exhaust port and the manifold having average pressure levels higher than the atmospheric. This varies with the engine speed and load. At higher speeds and loads the exhaust manifold is at pressures substantially above atmospheric pressure. These pressure waves propagate at speed of the sound relative to the moving exhaust gas, which escapes with a high velocity producing an objectionable exhaust boom or noise. A suitably designed exhaust silencer accomplishes the muffling of this exhaust noise. Which means that the exhaust gases from an internal-combustion engine are passed to attenuate (reduce) the airborne noise of the engine.  To be efficient as a sound reducer, a muffler must decrease the velocity of the exhaust gases and either absorbs sound waves or cancel them by interference with reflected waves coming from the same source. A typical sound absorbing material used in a muffler is a thick layer of fine fibers, the fibers are caused to vibrate by the sound waves, thus converting the sound energy into heat. Mufflers that attenuate sound waves by interference are known as reactive mufflers. These devices generally separate the waves into two components that follow different paths and then come	

	the trends for the two-whee	iculars	Costs per unit	Total for 10,000	) units	
	Direct Materia		4.00	40,000		
	Direct Manufac		2.00	20,000		
	Power and Util		1.50	15,000		
	Inspection,	Set-Up and		2,000		
	Materials Hand	•		_,;;;		
	Machine Rent			3,000		
	Allocated Fixed	d Costs of Plant		30,000		
	Administration	n, Insurance,etc.				
	Total Costs			1,10,000		
	<ul> <li>per Muffler. The following a</li> <li>Inspection, Set-up and M</li> <li>Mufflers are produced. MN0 that 10 batches are required</li> <li>MNC rents the machine machine rent can be avoided</li> </ul>	aterials Handling C currently produ I for meeting the used to make th	Costs vary with ices the Mufflers expected product	the number of b in batches of 100 ion requirements	atches in which the 0 units. It estimates	
a.	Should MNC accept the Ver the Vendor?	ndor's offer for 10	0,000 units? Wha	t is the maximun	n price payable to	
	Maximum Price Payable = Ro ROUGH WORK		evant Costs of own	n production		
	Particulars		lature and Compu		Rs.	
					1.01	
	Direct Materials	Variable an	•	x 10.000	40.000	
	Direct Materials Direct Manufacturing labou		nd Relevant = Rs.4		40,000 20.000	
	Direct Materials  Direct Manufacturing labout Power and Utilities	ur Variable an	•	10,000 Variable	20,000	
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	Direct Manufacturing labour Power and Utilities	ur Variable an and Releva Production (given) Spe	nd Relevant = Rs.4 nd Relevant = 2 × 1 nt = 1.50 × 10,000 Costs= Specific al crifically incurred =	10,000 Variable D Batch Related nd Relevant	20,000 15,000	
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	Direct Manufacturing labout Power and Utilities Inspection, Set up etc. Machine Rent	ur Variable an and Releva Production (given) Spe Allocated a	nd Relevant = Rs.4 nd Relevant = 2 × 1 nt = 1.50 × 10,000 Costs= Specific al crifically incurred =	10,000 Variable D Batch Related nd Relevant	20,000 15,000 2,000 3,000	
	Direct Manufacturing labour Power and Utilities Inspection, Set up etc. Machine Rent Fixed Costs	vr Variable an and Releva Production (given) Spe Allocated a	nd Relevant = Rs.4 nd Relevant = 2 × 1 nt = 1.50 × 10,000 Costs= Specific al crifically incurred = and Irrelevant	10,000 Variable D Batch Related nd Relevant = relevant	20,000 15,000 2,000 3,000 Nil 80,000	
	Direct Manufacturing labout Power and Utilities Inspection, Set up etc. Machine Rent Fixed Costs Total Relevant Costs for ow Average Relevant Cost per united to the set of the	variable and Releva Production (given) Spe Allocated a production unit for own production	nd Relevant = Rs.4 nd Relevant = 2 × 1 nt = 1.50 × 10,000 n Costs= Specific and incurred = 1 nd Irrelevant suction = (Rs. 80,000)	10,000 Variable D Batch Related nd Relevant = relevant  00/10,000) = Rs. 8	20,000 15,000 2,000 3,000 Nil 80,000 per unit	
b.	Direct Manufacturing labout Power and Utilities Inspection, Set up etc. Machine Rent Fixed Costs Total Relevant Costs for ow	Variable an and Releva Production (given) Spe Allocated a vn production unit for own production purchased from cade the bicycles can be increased Tooling Costs of R	nd Relevant = Rs.4 nd Relevant = 2 × 2 nt = 1.50 × 10,000 Costs= Specific and recifically incurred = and Irrelevant auction = (Rs. 80,000 outside, the facility by adding Mud F marginally by Rs. Rs. 16,000 would by	10,000 Variable D Batch Related Ind Relevant = relevant  00/10,000) = Rs. 8 Ities where the M Flaps and Reflector 20. The Variable one incurred. Should	20,000 15,000 2,000 3,000 Nil 80,000 per unit  ufflers are currently ors. As a result, the costs of the upgrade	

	Less: Fixed Costs incurred specif Net Additional Benefit = Rs.4,00 Since this benefit will be foregor production will then be 80,000 (							
c.	What is the maximum price pays	able to the Vendor in the situation of (b)?		2				
	Type your answer here Maximum Price Payable = Relev	ant Cost = Rs. 8.40 per unit.						
d.	only 6,200 units can be sold. Pr space can be used to add the M makes them in-house. At this lo	ned that the estimate of 10,000 units may be high and be oduction will be cut back, freeing up work facilities and Mud Flaps and Reflectors whether MNC outsources the wer output, MNC will produce the mufflers in 8 batches Mufflers from the Outside Vendor?	l space. This Mufflers or	4				
	Type your answer here Since Cost of Buying Rs. 8.20 p.u. is less than Average Relevant Cost Rs. 8.24, buying the mufflers is preferable.  Maximum Price Payable = Relevant Cost = Rs. 8.24 per unit Buying the mufflers is preferable.  ROUGH WORK							
	Computation of Relevant Costs of Own Production, with Revision in Production Estimates							
	Particulars	Nature and Computation	Rs.					
	Direct Materials	Variable and Relevant = Rs. 4 x 6,200 units	24,800					
	Direct Manufacturing labour	Variable and Relevant = Rs. 2 x 6,200 units	12,400					
	Power and Utilities	Variable and Relevant = Rs. 1.50 × 6,200	9,300					
	Inspection, Set-up, etc.	units Batch Related Costs = (2,000 + 10 batches)× 8 batches	1,600					
	Machine Rent	Specifically incurred = relevant	3,000					
	Fixed Costs	Allocated and Irrelevant	Nil					
	Total Relevant Costs for own p		51,100					
	A C	roduction = (Rs. 51,100/6,200 units) = Rs. 8.24 per unit						

**END**