	210	210	210	210	210	210	210			
	Regi	stration No :								
To	tal Nu	ımber of Pages : 02	2				B.Tech			
	010	o 6 <sup>th</sup> Se	emester Regula	ır / Back Eya	mination 2018-19		ME6I101			
	210		ODUCTION & C	PERATION	MANAGEMENT	210	210			
				ANCH : MECI						
				x Marks : 100 ne : 3 Hours						
				CODE : F996						
Aı	nswer	Question No.1 (Pa	rt-1) which is c	ompulsory, a Part-III.	nny eight from Par	t-II and any tv	vo from			
	210	<sup>2</sup> The fig	gures in the rig	010	jin indicate marks	210	210			
				Part- I						
Q1		Only Short Answer		(Answer All-	10)		(2 x 10)			
	a) b)	What is flexible man		sec? Write eau	ations to represent th	em?				
	c)				the forecast for the					
	210	using simple averag	e, and 3 period m	oving average	?	010	210			
	d)				model for aggregate		210			
	<b>e</b> )	when shortage cost		cost and sho	rtage cost related a	t the optimum				
	f)	What is Brain Storm								
	g)	Mention some princi								
	h)				and backward schedu	ıling?				
	i) :\	Is exponential smoo How is the order qua			e? How?					
	<b>j)</b> 210	now is the order qua	antity and reorder	210	210	210	210			
				Part- II						
Q2					Inswer Any Eight ou		(6 x 8)			
	aj	The following information about Lead Time Demand is given. The values are 300, 350, 400, 450 and 500 with probabilities 0.2, 0.25, 0.3 and 0.2 and 0.05. Find the reorder								
		level if Cc = Rs4/uni								
	b)			ate Planning	and Capacity Plan	ning. List the				
	<b>c</b> )0	difference between t		ov project cor	nsultant. One of you	coliontal@onta	210			
	C)°				t-food restaurant. Gu					
	d)	Explain Six Sigma p				,				
	e)	Discuss the steps of		: - FOO M. J. J	Distinguish batan	<b></b>				
	f)	quantity system and			? Distinguish betwee	n a fixedorder-				
	g)	Explain one qualitati								
	h)	Explain the relevance	e of Just in Time	system in mod	lern Manufacturing In					
	<b>4)</b> 0	A work-study samp					210			
					2 parts. The worker's Normal and Standar					
		activity.	ance factor was	12 /0.1 IIIG tile	Normal and Otalidal					
	j)	•	d examine the im	nortance of nic	nning and control in	manufacturing				
	1)	sector.	a chairiirie liie IIII	portante di pie		manulaciumig				
	k)	Describe briefly diffe								
	<b>l)</b> 210	Write basic issues a	nd tools of manag	ging production	<b>1.</b> 210	210	210			
	_10	£ 1 V	- I U	_ 1 0	: V		210			

210		210	210	210	210	210	210	210		
	Q3		Only Long Answer Ty Given the data 92, 93 simple exponential sm average? Explain the 6	, 92, 91, 93, 94, noothing? Use α	92 find the forec = $0.2 \alpha = 0.7 a$	cast for the eigh nd initial forecas	st using simple	(16)		
210	Q4	210	Consider the demand for six periods (in man hours) 3000, 3200, 4000, 3600, 4200 and 3800. Regular time capacity is 3600 hours and overtime capacity is 400 hours in a month. The RT, OT and inventory costs are 30, 45 and 5 per unit and per unit per month. Formulate and solve a transportation model? Use outsourcing cost as Rs. 50 per hour.							
210	Q5	210	Consider a five job throfor the five jobs are J1 (14, 12, 9). Find a heur	(27, 10, 8), J2	(12, 9, 10), J3 (1	1, 10, 8), J4 (8,	13, 12) and J5	<b>(16)</b>		
	Q6		Mention situations in ( production and opera processes, utilities use	tions manageme	ent are involved.			(16)		
210		210	210	210	210	210	210	210		
210		210	210	210	210	210	210	210		
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210		210	210	210	210	210	210	210		
210		210	210	210	240	210	210	210		