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04		Amarray tha	falla					all th					4			(2 × 40)	
Q1.	۵,	Answer the											type :			(2 x 10)	
	a)	Which of the		_	SINO	min	imize	•	-								
		a) Average la				41	ا		Aver		ow tii	ne					
	I-V	c) Average n						,	Costs		4.		. 41				
210	b)	Which photog							ora pa	atn ot	motic	ons oi	tne		10		210
		members of t		ay a	ırıng	meth	od stu		O I .								
		a) Acrograph							Cyclo								
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	c)	In the purcha				-		e den	nand	and le	ead ti	me is					
		deterministic		ROL	IS				_				··				
		a) Annual de	mand						Dema				time				
	-11	c) EOQ/D	£ - 11	·	4 .		6	,	None	of th	e abc	ve					
210	d)	Which of the					or tore	ecasti	ng?		21				10		21(
210		a) Forecasts					.90							_			210
		b) The under															
		c) Forecast fo											4.				
	۵۱	d) Short rang								_	_						
	e)	Which among	g the i	Ollow	ing is	asp	eciai	ractor	tnat	intiue	nces	tne p	iant				
		location?	_4					l _e \	l f	. 4 4							
		a) Cultural fa		f:::	L:			,	Infras		ıre						
	•	c) Communio				مطامم	: <u>-</u>		Trans			- tt t	برامين		10		
210	f)	"Space availa					HZOH	lai uii	ectioi	15 15 1	HOSE	eneci	ively	_	10		210
		utilized" is kn		•	•	OI		h)	Flexi	aility							
		a) Cubic space	ce util	ızaııu	111					•	diatan						
	a)	c) Flow Which of the	follow	ina c	hart i	e drav	wn M		Minin			CE					
	g)	a) Man mach			ilait i	s ura	VVII IVI		The I								
		c) The progre						,	Curv								
	h)	The inventory			dener	dent	on al	,				neno	rtation	ı ie			
210	"",	known as	y willo	,,,,,	210	ideiit	on an	210	100 111	oucs	21		itatioi		10		21(
210		a) Safety inve	≏nt∩rv	,	210				Pipel	ine in				_			210
		c) Decoupling	•						Seas			•					
	i)	Which one of	_	-		an in	nut to					•					
	''	a) beginning			ing is	an m	put to		forec				hoi				
		c) customer		y					all of			pci	.54				
	j)	A fishbone di		n is a	lso kr	าดพท	as a	a)	۵., ۵۱		2010						
	3/	a) cause-and					u	b)	poka	-voke	diad	ram					
210		c)Kaizen₂diag			210				Tagu	-	_				10		21(
210		- /· ·····	J		210			<i>⊶</i> y	- 54	J GI	5. 41	•		_			<u> </u>

requirements shown below?

Lot size=200 units and lead time of 1 week and safely stock=zero units. Weekly requirements: week 1=50 units, week 2=150 units, week 3=180 units, week 4=80 units, week 5=120 units, week 6=220 units and week 7=150 units. Inventory on hand = 210 units.

If the inventory on hand changes to 60 units and a scheduled receipt of 100 units is expected to arrive in week 2, redraw the MRP plan and recalculate the table.

b) In sequencing, for what situations do minimizing makespan and minimizing mean flow time become meaningful objectives? (5)

Q6. a) There are six jobs to be processed through three machines M1, M2 and M3. The processing time (in hours) required for each job is given below. (10)

nine	M1	M2	М3		
Α	11	7	18		
• B	18	10 7	7 2		
С	15	9	12		
D	13	5	15		
Ε	9	8	10		
F	12	7	18		
	A B C D E	A 11 B 18 C 15 D 13 E 9	A 11 7 B 18 410 7 C 15 9 D 13 5 E 9 8		

Determine the optimal sequence. Find total time elapsed to complete the jobs and idle time for each machine. Also draw the Gantt Chart. 210

Q7.	a)	A manufacturing	company produce	ae a certain a	arhov oo	mnonent and	wante	(10
	aj	to develop an ago	gregate plan for 4				210	(10
210		information is ava		210		210	210	
		Demand forecast						
		Month	1	2	3	4		
		Demand	1200	1100	1800	1500		
		Capacity in units						
210		210	210	210		210	210	
		Month	Regular Time	Over Ti	me S	Subcontract		
		1	1200	150		800		
		2	900	200		800	_	
		3	1000	350		800	_	
		4	700	350		800		
		optimum producti	te the problem as on levels and me			i to determine	: uie	
Q8 _{.0}	b) a)	optimum producti List and explain the Derive the EBQ for Explain the terms Write short note ISO 9000	on levels and me ne types of foreca ormula for the ma reverse enginee	ans of productions in decise nufacturing m	tion. ion makin nodel witho	g. out shortage.	210	(10 (5)
	a) b)	optimum producti List and explain the Derive the EBQ for Explain the terms Write short note	on levels and mene types of forecast ormula for the manareverse engineers on:	ans of productions in decise nufacturing m	tion. ion makin nodel witho	g. out shortage.		(10 (5) (5)
	a) b) a) b) c)	optimum producti List and explain the Derive the EBQ for Explain the terms Write short note ISO 9000 TPM	on levels and mene types of forecast ormula for the manareverse engineers on:	ans of productions in decise nufacturing m	tion. ion makin nodel witho	g. out shortage.		(10 (5) (5)
Q 9.	a) b) a) b) c)	optimum producti List and explain the Derive the EBQ for Explain the terms Write short note ISO 9000 TPM P and Q System	on levels and me types of foreca ormula for the ma reverse engineers on:	ans of productions in decise nufacturing mand stand	tion. ion makin nodel witho	g. out shortage. i.	210	(5) (10 (5) (5) (5) (5)
Q 9.	a) b) a) b) c)	optimum producti List and explain the Derive the EBQ for Explain the terms Write short note ISO 9000 TPM P and Q System	on levels and me types of foreca ormula for the ma reverse engineers on:	ans of productions in decise nufacturing mand stand	tion. ion makin nodel witho	g. out shortage. i.	210	(10 (5) (5)