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			Max Mai				
			Time : 3				
		0 " N 4/D	Q.CODE				_
0	Answe	r Question No.1 (Pa	rt-1) which is compເ Par		it from Pai	rt-II and any two	from 210
		The fig	ים Jures in the right ha	-	ate marks	.	
		•	,	J			
	Q1	Only Short Answer	Paı Type Questions (Ansv	-			(2 x 10)
	a)	<u> </u>	and by Push/Pull produ	•			(2 X 10)
	b)	What are the equipme	ents required for Flexible	le Manufacturing S			
0	c)	Define Operations Ma	•	210	210	210	210
	d)	What are the principle		aturina?			
	e) f)	What do you mean by	uter Integrated Manufac v KPI?	sturing?			
	g)	What is Activity Syste					
	h)	Briefly explain scope					
0	i)	Write some benefits of	210	210	210	210	210
	j)	Where are the places	Poka Yoke works well	?			
	00			art- II	= 1.1.4		(0 0)
	Q2 a)	Discuss the steps of i	: Answer Type Question molementing Kaizen	ons- (Answer An	y Eight ou	of I weive)	(6 x 8)
	b)	What are the aims of					
0	c)	List and explain the s	teps of Business Proce	ss Reengineering.	210	210	210
	d)	Give the frame work	of supply chain network	and explain its co	mponents.		
	e)	Explain the use of bre	eak-even analysis for pl	ant location decisi	on with a su	uitable example.	
	f)	What are the compon	ents of ERP cost? Exp	lain them.			
	g)	Illustrate the applicati	on of QFD with a suitab	ole example.			
0	h)	Explain the basic prin	ciples of JIT manufactu	ıring system.	210	210	210
	i)	List and explain the c	omponents of Lean Ma	nufacturing.			
	j)	Discuss the need for	controlling quality of go	ods and services.			
	k)	•	pling plan with the fol 0.10; Acceptable quali	•		` ,	
0	I)	Distinguish between I	DMAIC and DMADV.	210	210	210	210

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

Q3

Q4

A project consists of 8 activities. Precedence relation and activity times are given. Draw the network and complete the critical path and show the ES, EF, LS, LF and slack for each activity in a tabular form. Find out the project duration.

(16)

(16)

Activity	Immediate predecessor	Activity Time(Weeks)		
Р	-	12		
Q	-	20		
R	-	28		
S	R	12		
2 1 0	210 P,Q 210	²¹⁰ 28 ²¹⁰		
U	T,S	12		
V	S	8		
W	U,V	8		

A job consists of four work elements and all are performed by the same operator. An analyst conducted work sampling to determine the standard time for the job. The duration of the study is one day with two shifts. Each shift has 420 minutes of effective time. The details of observations are summarized in the following table. The total number of acceptable units produced during the study period is 225 units. Determine the standard time by assuming allowance of 12 percent.

Work Element Number	Frequency of Performance	Performance Rating
1	50	90%
2	90	150%
3	75	100%
4	85	115%

Q5 Demonstrate the concept of resource allocation with a suitable example. 210 (16)10

Q6 Give the frame work of MRP II and explain it. (16)

210 210 210 210 210 210 210 210 210