## **GUJARAT TECHNOLOGICAL UNIVERSITY** ME - SEMESTER- I (OLD course)• EXAMINATION – SUMMER 2015

Su	bject	<b>Code: 71</b>	Date: 11/05/2015												
Subject Name: Production and Operations Management Time: 10:30 am to 1:00 pm Total Marks: 70 Instructions:															
	1. 2. 3.	Attempt al Make suita Figures to	ll ques able as the rig	tions. sumpt ght ind	ions w licate f	hereve ull ma	er nece rks.	ssary.							
Q.1	(a) (b)	Explain <b>OPITZ</b> classification system with a suitable example. Why aggregate production planning is required? Differentiate between Chase												07 07	
Q.2	(a) (b)	Explain the concept of Just in Time. Explain the Application and Importance of simulation. Explain different simulation packages.												07 07	
			I	0			OR								
Q.3	(b) (a)	Explain different forecasting errors.07Define the term õManagement Information Systemö. Explain the role of07Desision making in designing MIS													
	(b)	What is a generative process planning? Compare variant and generative process <b>0</b> 7 Planning methodologies.													
							OR								
Q.3	(a)	Explain Different Facility Layouts.												07	
04	(D)	<b>b)</b> Explain the concept of Line of Balancing with a suitable example.									varia	16	07		
Q.4	(a)	Stages of project life cycle with sketch.													
	(b)	Explain different ERP Modules. 0'													
		OR													
Q.4	<b>(a)</b>	What is a õKanbanö? Why is this system called a õPullö or demand system of <b>0</b>													
	<b>(b)</b>	Inventory control?											07		
	(D)	Explain different Advanced Forecasting Methods.												0/	
0.5	(a)	<ul><li>Explain the concept of Work System Design.</li><li>Explain Open and Close channel Queuing networks.</li></ul>												07	
~~~	(b)												07		
							OŘ								
Q.5	(a)	What is a Resource Allocation? Explain the algorithm for Resource Allocation.												07	
	(b)	Information on the activities required for a project is as follows:											07		
		Time of each of the activity.													
		Name	А	В	C	D	E	F	G	Η	Ι	J	K		
		Activity Node	1-2	1-3	1-4	2-5	3-5	3-6	3-7	4-6	5-7	6-8	7-8		

7

4

11

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3

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8

Duration

Days

3