Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – WINTER • 2013

Subject code: 710803N **Date: 03-01-2014**

Subject Name: Computer Aided Production Management

Time: 10.30 am – 01.00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain Box Jerkin's method for forecasting.	**07**
	(b)	Explain measurement of forecast accuracy.	**07**
Q.2	**(a)**	Short note: Computerized relative allocation of facility technique.	**07**
	(b)	Explain Basic Structure of the Opitz Parts Classification and Coding System	**07**
		OR	
	(b)	Explain Design and manufacturing attributes.	**07**
Q.3	**(a)**	Draw the structure of a computer aided process planning system. What is the need of such system in the manufacturing industry?	**07**
	(b)	Explain backward and forward approach for computer aided process planning system	**07**
		OR	
Q.3	**(a)**	Explain Material Requirement Planning	**07**
	(b)	What is ERP? Discuss its benefits in large scale industry.	**07**
Q.4	**(a)**	Describe Analytic hierarchy approach for ERP	**07**
	(b)	Explain ERP implementation with example	**07**
		OR	
Q.4	**(a)**	Why are the jobs to be sequenced before processing? Discuss the assumptions which are to be made for sequencing the jobs.	**07**
	(b)	What are the main phases of shop floor control? Explain.	**07**
Q.5	**(a)**	Explain the non contact type computer aided inspection method.	**07**
	(b)	Write the important benefits of computer aided quality control	**07**
		OR	
Q.5	**(a)**	Explain major activities of simulation packages	**07**
	(b)	Explain methodologies of simulation.	**07**

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