Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER–VIII • EXAMINATION – SUMMER • 2014

Subject Code: 183402 **Date: 31-05-2014**

Subject Name: Information Technology in Manufacturing

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 the role of Information Technology in Manufacturing Process.	**07**
	(b)	Explain about Process Planning for parts & assemblies in detail.	**07**
Q.2	**(a)**	What is extended enterprise? Explain with suitable example.	**07**
	(b)	Explain about Enterprise Resource Planning (ERP) with suitable example.	**07**
		OR	
	(b)	Explain the several phases of product life cycle.	**07**
Q.3	**(a)**	Write down the different types of simulation software are used in Manufacturing Engineering? Write any one simulation software's use in detail?	**07**
	(b)	Explain in brief about Product Data Management.	**07**
		OR	
Q.3	**(a)**	Write short notes about Engineering Change Management with respect to collaborative Engineering.	**07**
	(b)	Explain about CAPP software and its advantages.	**07**
Q.4	**(a)**	Write short note on Inventory & Bill of Material.	**07**
	(b)	Explain the planning of resources for Manufacturing applications & Engineering applications through Information Technology.	**07**
		OR	
Q.4	**(a)**	Explain in brief about Supply Chain Management Process and its advantages.	**07**
	(b)	Write the objectives of MRP. Distinguish between MRP and MRP-II.	**07**
Q.5	**(a)**	Explain about PLM in detail.	**07**
	(b)	Explain in detail about Product Configuration Management.	**07**
		OR	
Q.5	**(a)**	Write short notes about Group Technology layout with suitable sketch.	**07**
	(b)	Distinguish between Sequential Engineering & Concurrent Engineering in Product Development.	**07**

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