

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**
