

GUJARAT TECHNOLOGICAL UNIVERSITY**BE SEM-VIII Examination May 2012****Subject code: 182502****Subject Name: Recent Advances in Manufacturing****Date: 12/05/2012****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 MIS and Production Operation System. **07**
(b) Define ERP. Explain the modules of ERP with its installation procedure. **07**
- Q.2** (a) Write a short note on E-manufacturing. **07**
(b) Write a short note on Just In Time and mention the name of a companies work on this concept . **07**
- OR**
- (b) Explain E-commerce. Discuss it's importance in manufacturing. **07**
- Q.3** (a) Explain the ERP for different types of manufacturing system. **07**
(b) Explain role of Supply Chain in management and its different model's with neat sketch. **07**
- OR**
- Q.3** (a) State the basic Components and Benefits of 5S in detail. **07**
(b) Explain KAIZEN philosophy and SMED. **07**
- Q.4** (a) Define Value Analysis .Explain different stages of Value Analysis **07**
(b) Compare the Value Analysis and Value Engineering. **07**
- OR**
- Q.4** (a) Explain Techniques of Value Analysis . **07**
(b) Justify "Unnecessary cost associated with manufacturing which increases the total cost of product ." **07**
- Q.5** (a) Explain techniques of Value Engineering. **07**
(b) Explain the role of ERP in Productivity Improvement. **07**
- OR**
- Q.5** (a) Write a short note on KANBAN **07**
(b) Explain TPS with suitable illustration. **07**
