

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VIII • EXAMINATION – SUMMER 2014

Subject Code: 182502**Date: 31-05-2014****Subject Name: Recent Advances in Manufacturing****Time: 10:30 am TO 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 briefly the concept of ERP. How does ERP help to achieve business integration? **07**
- (b)** Explain the concept of supply chain. Discuss its importance in overall performance improvement of the organization. **07**
- Q.2 (a)** Which are the seven wastes of JIT? Discuss them in brief. **07**
- (b)** Discuss various subsystem of Human resource module of typical ERP package. **07**
- OR**
- (b)** Explain the inventory management subsystem of manufacturing module of a typical ERP package. **07**
- Q.3 (a)** “Value Analysis is a remedial process while Value Engineering is a preventive process”- Discuss. **07**
- (b)** Explain in brief the methods for improving forecasts in supply chain management. **07**
- OR**
- Q.3 (a)** Define value. State how it can be increased? Describe the various types of values. **07**
- (b)** ‘POKAYOKE’ helps in defect free production’- explain **07**
- Q.4 (a)** Write a short note on E-commerce. **07**
- (b)** Explain how material flow is controlled using KANBAN on the shop floor? **07**
- OR**
- Q.4 (a)** Explain external setup and internal setup in context of SMED. **07**
- Q.4 (b)** List and explain various modes of transport. **07**
- Q.5 (a)** State and explain various stages of ERP lifecycle. **07**
- (b)** Explain Value Analysis procedure. **07**
- OR**
- Q.5 (a)** Explain the importance of employee involvement in implementation of KAIZEN. **07**
- (b)** Explain the sources of information collection for an ERP. **07**
