

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VIII • EXAMINATION – SUMMER • 2015

Subject Code: 183403

Date:13/05/2015

Subject Name: Modern Manufacturing Practices

Time:10.30AM-01.00PM

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) What are the methods to be implemented in achieving world class organization? **07**
(b) Explain about Gunn and maskell models for manufacturing excellence. **07**
- Q.2** (a) Explain the various methods of eliminating wastes. **07**
(b) What are the concepts of bench marking and bottlenecks, explain it briefly. **07**
- OR**
- (b) Explain the POKA-YOKE method with neat sketch. **07**
- Q.3** (a) Write short note on FMS with suitable sketches. **07**
(b) Briefly explain JIT technique with an example. **07**
- OR**
- Q.3** (a) Briefly explain rapid manufacturing systems with suitable figures. **07**
(b) Write short note on 5-S techniques. **07**
- Q.4** (a) Explain the techniques of removing root causes of problems involved in modern manufacturing. **07**
(b) Discuss about Total productive maintenance in detail. **07**
- OR**
- Q.4** (a) What are the motivations and rewards in the age of continuous improvement with respect to modern manufacturing? **07**
(b) Write short notes on Six-sigma philosophy. **07**
- Q.5** (a) Explain world class manufacturing with suitable illustrations. **07**
(b) Explain about 'Green manufacturing' in present scenario with suitable examples. **07**
- OR**
- Q.5** (a) Discuss about 'Clean manufacturing' in detail with suitable examples. **07**
(b) Explain about 'Agile manufacturing' along with its applications. **07**
