

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

Subject Code: 183403**Date: 03-06-2014****Subject Name: Modern Manufacturing Practices****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.

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|------------|-----|--|-----------|
| Q.1 | (a) | Explain the Schonberger model of World Class Manufacturing | 07 |
| | (b) | Explain the Hall's frame work of value added manufacturing. | 07 |
| Q.2 | (a) | Discuss the Gunn's model of World Class Manufacturing. | 07 |
| | (b) | Explain the Just in Time Manufacturing System in detail. | 07 |
| OR | | | |
| | (b) | Write a short note on Rapid Prototyping | 07 |
| Q.3 | (a) | Explain Toyota Production System. | 07 |
| | (b) | What do you understand by Value Stream Mapping? | 07 |
| OR | | | |
| Q.3 | (a) | Explain the PO-P system. | 07 |
| | (b) | What is the AMBITE system of performance? Explain in detail. | 07 |
| Q.4 | (a) | Discuss the TOPP system of performance measurement. | 07 |
| | (b) | Explain Significance of Human Resource Dimensions in Modern Manufacturing Practices. | 07 |
| OR | | | |
| Q.4 | (a) | Write a short note on Flexible Manufacturing Systems (FMS) | 07 |
| | (b) | What do you understand by Clean Manufacturing? | 07 |
| Q.5 | (a) | Write a short note on Statistical Quality Control. | 07 |
| | (b) | Describe case study of any one of the Indian company which is practicing modern manufacturing techniques | 07 |
| OR | | | |
| Q.5 | (a) | Explain Green Manufacturing | 07 |
| | (b) | Explain Lean and Agile manufacturing | 07 |
