Max. Marks: 100



Time: 3 hrs

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Industrial and Production Engineering Semester End Examination; May/June - 2018 World Class Manufacturing

World Class Manufacturing

Note: Answer *FIVE* full questions, selecting *ONE* full question from each unit. UNIT - I 1 a. What is world class manufacturing and briefly summarize on manufacturing excellence and 10 competitiveness in the field of world class manufacturing. b. Explain Hall's framework of value added engineering. 10 2 a. Explain the following: i) Gunn's model of world class manufacturing 6 ii) Maskell's model of world class manufacturing. b. Briefly explain practices of world class manufacturing followed. 6 **UNIT - II** 3. Write a note on : i) Value stream mapping ii) Rapid prototyping 20 iii) Flexible manufacturing iv) Data collection plan 4 a. Summarizes on information management tools. 10 b. Write a note on: i) Poka yoke ii) SMED Techniques. 10 **UNIT-III** 5 a. What is a benchmarking? Explain the process of benchmarking. 12 b. Explain business process in benchmarking process. 8 6 a. Explain the concepts of step zero approach in benchmarking. 10 b. List the advantages of benchmarking process. 5 5 c. Explain the objectives of benchmarking process. **UNIT - IV** 7 a. What is Reengineering? Explain in briefly business process reengineering. 10 b. Explain the role of 3C's in Reengineering process. 10 8. Write a note on the following: 8 a) ISO 9000 series b) ISO 14000 series c) Mallolm baldridge national quality award UNIT - V 9 a. Define six sigma. Explain the core of six sigma. 12 8 b. Explain IDOV method of six sigma. 10. Write a note on the following: 20 i) Activity based costing iii) Theory of constraints ii) Activity based management