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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
Eighth Semester, B.E. - Industrial and Production Engineering
Semester End Examination; June - 2016
World Class Manufacturing

Time: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO full questions from each part.

PART - A

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| 1 a. | What is World Class manufacturing? Explain Gunn's Model of World-Class Manufacturing. | 12 |
| b. | Narrate the America's Best Plants Model World Class Manufacturing. | 8 |
| 2 a. | Explain the following : | 7 |
| | i) World Class Practice in Quality ii) World Class practice in the Factory | 6 |
| b. | Write a note on the customer interface. | 7 |
| 3 a. | Explain the Balance score card Technique. | 10 |
| b. | What is value stream mapping and Explain briefly? | 10 |
| 4 a. | Explain briefly the phases of Bench marking. | 8 |
| b. | Describe the procedure of developing a candidate's list and the systematic search procedure and followed in Bench marking project. | 12 |

PART - B

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| 5 a. | Answer the following : | |
| | i) Importance of 3C's is reengineering. | 5 |
| | ii) Concept of reengineering in an Industry. Explain with a block diagram. | 10 |
| b. | Write a note on Radical redesign and dramatic improvement. | 5 |
| 6. | Write a note on the following : | |
| | a) Malcolm Bal bridge National Quality award. | 7 |
| | b) Demieng's Award | 8 |
| | c) Role of information Technology | 5 |
| 7 a. | Explain the different phases of six sigma DMAIC model. | 10 |
| b. | State the principles of DFSS matrices and its infrastructure. | 10 |
| 8. | Write a short note on the following : | |
| | a) TOC | 10 |
| | b) ABM | 5 |
| | c) Activity based costing. | 5 |