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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; June - 2017 World Class Manufacturing

Time: 3 hrs Max. Marks: 100 *Note*: Answer *FIVE* full questions, selecting *ONE* full question from each unit. 1 a. What is world class manufacturing? Explain the Hall's Frame work of value added 12 Engineering. b. Describe the Gunn's Model world-class manufacturing. 8 2 a. Write a note on: 10 i) The customer interface ii) The supplier interfaces. b. Narrate the first principles of world class manufacturing. 10 **UNIT - II** Explain the following: 3 a. 15 i) Value stream mapping ii) FMS iii) Rapid Prototyping. b. Narrate Barcode system related to WCM. 5 Explain the following Information management tools: 4 a. i) Product process design tools 10 ii) Computer aided process planning iii) Group technology. b. With a block diagram, explain flexible processing and handling tools. 10 **UNIT - III** 5. What is Bench marking? Explain the formal 10 steps bench manufacturing process. 20 Write a note on the following: 6 a. 12 i) What to Bench mark? ii) Focus on the investigation. b. Narrate about whom to Bench marks. 8 **UNIT-IV** 7 a. What is Reengineering? Explain in detail business process reengineering. 10 b. Write a note on Radical re-design and dramatic improvement. 10 8. Write a note on the following: i) Role of Information Technology 20 ii) Frame work for business excellence iii) Quality systems.

UNIT - V							
9 a.	Explain the DMAIC methodology step by step briefly.						
b.	Write a note on the following:						
	i) Implementing DFSS	10					
	ii) DFSS matrics						
10 a.	What is ABM? Explain the ABM uses in the different areas.	10					
b.	Describe the theory of constraints in detail.	10					

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