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**B.E (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2011**

Manufacturing Engineering

Sixth Semester

**MF9351 COMPUTER INTEGRATED PRODUCTION MANAGEMENT SYSTEM**

(Regulations 2008)

Duration: Three hours

Max. Marks: 100

**Answer ALL questions:**

**PART A (10 x 2 = 20 marks)**

1. Classify production systems.
2. List different errors in forecasting.
3. Define MRP.
4. What are the benefits of MRP?
5. What is the role of shop floor control?
6. List the application of automatic identification system.
7. What is the need for process planning in any industry?
8. List the advantages of CAPP.
9. What is the significance of decision logic?
10. Compare conventional process planning with the automatic process planning.

**PART B (5 x 16 = 80 marks)**

11. a. (i) Describe the functions of process planning. (10)  
       (ii) Explain the future role of CAPP. (6)
12. a. Explain the functions of production planning and control. What are the limitations of it? (16)  
       Or  
       b. Describe single and double exponential smoothing methods in detail. (16)
13. a. Describe the structure of an MRP system in detail with an example. (16)  
       Or  
       b. (i) Explain Capacity Planning. (10)  
       (ii) Describe how MRP computer system works. (6)

14. a. Explain different phases of shop floor control system in detail. (16)

Or

b. (i) Describe the automated and semiautomated data collection systems. (10)

(ii) What are the roles of computer in process monitoring? (6)

15. a. (i) Describe Generative CAPP. (10)

(ii) Explain the benefits derived from Computer automated process planning. (6)

Or

b. (i) Discuss the importance of artificial intelligence in an manufacturing industry. (8)

(ii) Describe the characteristics of good knowledge representation. (8)