

# B.E/B.Tech DEGREE EXAMINATIONS, APRIL 2011

Manufacturing Engineering

Sixth Semester

## MF 9351 –COMPUTER INTEGRATED PRODUCTION MANAGEMENT SYSTEM

Time: Three hours

Maximum:100 Marks

Answer **ALL** questions

### PART A-(10 × 2 = 20 marks)

1. Distinguish between planning and control in a production context.
2. What are the characteristics of a good forecast?
3. Does MRP leads to reduction in inventory costs? Justify your answer.
4. What is a modular bill of Material?
5. State any two applications of automatic identification systems.
6. How does a bar code reader work?
7. What is geometric tolerancing? What are its characteristics?
8. What are the problems associated with manual process planning?
9. Explain how knowledge base is useful in generative CAPP system.
10. What is the major function of decision logic?

### PART B-(5 ×16 = 80 marks)

11. (i)Discuss about the future trend of CAPP. (8)  
(ii) Discuss the problems that hindered the acceptance of expert system too by industry. (8)
12. a. i) List out problem encountered on tradition PPC? Explain any four. (6)  
ii) The following table contains the demand from the last 10 months.

Month	1	2	3	4	5	6	7	8	9	10
Actual demand	31	34	33	35	37	36	38	40	40	41

- a. Calculate the single exponential smoothing forecast for this data using  $\alpha$  of .30, and an initial forecast (F1) of 31.