Register Number………………………

M.E., DEGREE EXAMINATIONS: NOV/DEC 2012
Third Semester
CAD/CAM
CCM556: Flexible Competitive Manufacturing System

Time: Three Hours   **Maximum Marks: 100**

Answer All Questions:-
PART A (10 x 2 = 20 Marks)

1. State the Advantages of Computer Numerical Control

2. How non-contact sensors are useful in adaptive control systems?

3. Define Group Technology.

4. Name few coding systems used in process planning

5. What is FMS?

6. What is the significance of dynamic scheduling?

7. List down the advantages of the automatic data collection methods.

8. What are the ways of carrying out simulation?

9. What is meant by Pull method of production planning and control system?

10. List down value stream mapping tools.

PART B (5 x 16 = 80 Marks)

11. a) Explain the Activities in the manufacturing enterprises automated by Electronic Data
    Interchange technologies.

(OR)

  b) Explain the various configurations of the industrial robot.

12. a) What are Part Families? Describe the methods to define part families.

(OR)

  b) Describe the benefits of group technology implementation in a typical organization.

13. a) What are the major elements of FMS? Explain

(OR)

b) Describe the various types of data associated with the flexible manufacturing cell.

14. a) Describe the structure of a process planning software with neat sketches.

(OR)

b) Explain the main features of Relational Data Base Management System.

15. a) Explain Kanban System in Just in Time Manufacturing and brief out waste elimination.

(OR)

b) Discuss the inventory management in just in time manufacture.

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