Reg. No. : ....

Name : ....

Eighth Semester B.Tech. Degree Examination, April 2015
(2008 Scheme)
08.806.10 : FLEXIBLE MANUFACTURING METHODS (MPU)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. Describe the general architecture of a digital computer.

2. What is meant by engineering analysis in design process ?

3. What are the functions of a machine controller unit ?

4. Write about punched tape coding format.

5. What is group technology ?

6. What is meant by 'Flexible Manufacturing System' ?

7. Write the benefits of FMS.

8. List any four applications of industrial robots.

9. What is meant by network simulation ?

10. What is artificial intelligence ?

(4×10=40 Marks)

PART – B

Answer **one** question from **each** Module.

Module – 1

11. a) Explain computer aided design process.   **10**

    b) Detail the applications of CAD.   **10**

12. a) Explain various components of NC system.   **10**

    b) Describe motion control system of NC.   **10**

Module – 2

13. a) Explain part classification and coding in group technology. **10**

    b) What is automatic tool changers ? **10**

14. a) Explain the types of automatic guided vehicles in FMS. **10**

    b) What are the methods to program robots ? **10**

Module – 3

15. a) Describe about modeling of FMS. **10**

    b) Write a note on tool management in FMS. **10**

16. a) Write a note on economics of FMS implementation. **10**

    b) Describe the types of networks in FMS. **10**

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