Reg. No. : ....

Name : ....

Eighth Semester B.Tech. Degree Examination, April 2015
(2008 Scheme)
08.804 : COMPUTER INTEGRATED MANUFACTURING (MU)

Time : 3 Hours

Max. Marks : 100

PART – A

(Answer **all** questions)

1. What is CAE ?

2. Describe nature of CIM systems.

3. Discuss the benefits of CAD.

4. What are the advantages of PIV drives ?

5. Compare open loop and closed loop control in NC system.

6. What is stick slip phenomenon ?

7. What are linear guides ?

8. What are the advantages of JIT ?

9. Write notes on AS/RS.

10. Briefly describe on communication networks in manufacturing. **(10×4=40 Marks)**

PART – B
(Answer **any one full** question from **each** Module)

Module – 1

11. a) What is computer aided process planning ? Explain the different types of CAPP. **10**

    b) Explain the meaning and scope of CIM. **10**

12. a) Explain the concept of database management. **10**

    b) Discuss the basic concept of MRP. **10**

Module – 2

13. a) Explain the different types of feedback devices. **10**

    b) Explain adaptive control and its various types. **10**

14. a) Discuss the features of manual part programming. How is it different from APT part programming ? **10**

    b) Differentiate between linear, circular and helical interpolation. Specify the corresponding 'G' codes. **10**

Module – 3

15. a) What is OPTIZ classification system ? Explain. **10**

    b) Explain the different configuration of robots. **10**

16. a) What is an automated guided vehicle ? Explain the different types and technologies involved. **10**

    b) Explain the concept of concurrent engineering. **10**

———————