



(Pages : 2)

A – 2275

Reg. No. :

Name :

Eighth Semester B.Tech. Degree Examination, April 2016
(2008 Scheme)
08.804 : COMPUTER INTEGRATED MANUFACTURING (MU)

Time : 3 Hours

Max. Marks : 100

Instruction : Answer *all* questions in **Part – A** and *one* question from *each* Module of **Part – B**.

PART – A

- I. a) Define the concept of CIM.
- b) What are the different types of manufacturing system ?
- c) Enumerate the application of computer in design.
- d) Compare manual process planning and computer assisted process planning.
- e) Differentiate between absolute and incremental positioning system with example.
- f) Explain any four G-codes used in NC system.
- g) Define the terms resolution, accuracy and repeatability.
- h) Enumerate the features of JIT manufacturing.
- i) List out the functions of material handling units in manufacturing industry.
- j) Enumerate the features of adaptive control system. **(10×4 = 40 Marks)**



PART – B

Module – 1

- II. a) Explain the important elements of CIM.
- b) Explain data base management system. **20**

OR

- III. a) Explain the integration of CAD and CAM.
- b) Explain variant (retrieval) method of process planning. **20**

P.T.O.



Module - 2

- IV. a) Explain the different types of motion controls in NC machines.
b) Explain linear interpolation in NC machines. 20

OR

- V. a) Explain the various components of CNC machines.
b) Explain the working of stepper motors used in NC machines. 20

Module - 3

- VI. a) Explain any two physical configuration of industrial robot with neat sketches.
b) Explain the path control of Automated guided vehicle. 20

OR

- VII. a) Explain Automated storage and retrieval system.
b) Compare concurrent engineering and sequential engineering. 20
-