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Reg. No. : .....

Name : .....

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

Time : 3 Hours Max. Marks : 100

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

PART – A

I. a) Compare CIM and CAM.

b) Mention some of the softwares used in different applications of CIM.

c) Define Manufacturing Automation Protocol (MAP).

d) Compare point to point and continuous path control systems.

e) Mention the features of cellular manufacturing.

f) Write short notes on antifriction bearing.

g) Describe CNC part programming.

h) List out the industrial applications of robot.

i) Mention the limitations of sequential engineering.

j) Sketch a belt conveyor and mention the function of each element. **(10×4=40 Marks)**

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PART – B

Module – 1

II. a) Explain the integration of CAD and CAM.

b) Explain Manufacturing Resource Planning (MRP II). **20**

OR

III. a) Explain the application of computer in designing.

b) Explain CAD software and its hierarchical structure. **20**

Module – 2

IV. a) Explain closed loop control system with an example.

b) Explain tool compensation in NC machines. 20

OR

V. a) Explain the important elements of CNC system.

b) Explain adaptive control by optimisation. 20

Module – 3

VI. a) Explain different types of FMS layout.

b) Write short notes on computer vision. 20

OR

VII. a) Draw polar configuration of robots and explain types of joints and motion.

b) Explain the role of management in CIM. 20