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5717

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, October 2014
(2008 Scheme)**

08.804 : COMPUTER INTEGRATED MANUFACTURING (MU)

Time: 3 Hours

Max. Marks: 100

PART – A

Answer **all** questions :

1. Explain the working of CAM software.
2. Briefly describe the different layers of MAP.
3. What are the advantages of CAPP ?
4. Differentiate between CNC and DNC.
5. What are stepper motors ?
6. State the working principle of a resolver.
7. What is a canned cycle ?
8. What is an expert system ?
9. What are the advantages of concurrent engineering ?
10. Write notes on computer vision.

(10×4=40 Marks)

P.T.O.



PART – B

Answer **any one full** question from **each** Module :

Module – 1

11. a) Describe the retrieval and generative CAPP in detail. 10
b) Explain the different applications of CAD. 10
12. a) Discuss on DBMS and RDBMS. 10
b) Explain different types of CIM manufacturing systems. 10

Module – 2

13. a) Differentiate between preparatory and miscellaneous function codes. Explain any three 'G' codes. 10
b) What are the different types of optical encoders ? Explain with detailed diagrams. 10
14. a) What are recirculating ball screw mechanisms ? Explain preloading of ball screws. 10
b) Differentiate between point to point, straight cut and continuous path type NC machines. 10

Module – 3

15. a) What is Group Technology ? Explain its advantages and applications. 10
b) Discuss the different programming method for robots. 10
16. a) Explain the different components of FMS. 10
b) Enlighten the concept of JIT. 10
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