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(Pages: 2)

Reg. No.....

B.TECH, DEGREE EXAMINATION, DECEMBER 2012

Fifth Semester

Branch : Mechanical Engineering/Automobile Engineering

AU 010 502 ME 010 502 COMPUTER AIDED DESIGN AND MANUFACTURING (AU, ME)

(Regular-New Scheme)

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

Part A

Each question carries 3 marks.

- 1. Define computer integrated manufacturing.
- 2. Differentiate between Incremental and Absolute systems.
- 3. List any five geometric commands in APT.
- 4. What are the advantages of CAPP?
- 5. What is the function of a robot end effector?

 $5 \times 3 = 15 \text{ marks}$ 

Part B

Each question carries 5 marks.

- 6. Discuss the various storage devices used in CAD.
- 7. Explain the practical application of straight-cut NC system.
- 8. Discuss the main aspects of word address format in NC.
- 9. What are the elements of responsive manufacturing? Explain.
- 10. What are the challenges in application of a robot for welding?

 $(5 \times 5 = 25 \text{ marks})$ 

Part C

Answer either (a) or (b) section from each module. Each full question carries 12 marks.

Module I

 (a) Discuss a scheme for networking an integrated CAD/CAM system used in a foundry shop and machine shop.

100

(b) Describe all the 2D transformation operations used in CAD.

Turn over

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