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Total No. of Pages : 02

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B.Tech.(ME) (2011 Onwards) (Sem.–5) COMPUTER AIDED DESIGN AND MANUFACTURING Subject Code : BTME-502 M.Code : 70603

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a) Give the flowchart of basic design process,
- b) What is Geometric Transformation?
- c) What is constructive solid geometry (CSG) in geometric modelling?
- d) What is an interpolant curve?
- e) Define a part program.
- f) What is fixed and floating zero?
- g) What is part family?
- h) Give the data selection systems in CAPP.
- i) Discuss the benefits of FMS.
- j) What is the function of shading in design?

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SECTION-B

- 2. Discuss the functions of Software Graphic package.
- 3. Discuss and two types of Geometric Transformations using suitable 2-D examples.
- 4. What is a wireframe model and discuss hidden line removal concept in it?
- 5. Explain the importance of Adaptive control in machining operations.
- 6. Discuss various part classification and coding systems used in GT.

SECTION-C

- 7. a) What is CAPP and discuss the benefits of CAPP.
 - b) Discuss various types of CAPP systems.
- 8. a) Discuss the types of manufacturing systems in CIMS.
 - b) Discuss different types of layout considerations of FMS.
- 9. a) Discuss the parametric representation of B-spline curve.
 - b) Discuss the equation and characteristics of Bezier curve.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.