Roll No. ....   Total Pages : 2

BT-6/M-20   **36129**

COMPUTER AIDED DESIGN AND MANUFACTURING

Paper–ME-308E

Time : Three Hours]   [Maximum Marks : 75

Note : Attempt only *five* questions, selecting *one* question from each unit.

UNIT–I

1. (a) Explain the nature and role of the CAD/CAM in industry.   8

    (b) Describe the input/output and display devices in CAD.

                                                                        7

2. (a) Discuss the hierarchical structure of computer control of manufacturing system.   8

    (b) Describe hardware configuration of CIM with the help of a sketch.   7

UNIT–II

3. (a) Discuss the parametric representation of B-spline curve.

                                                                        8

    (b) Discuss the equation and characteristics of Bezier curve.

                                                                        7

36129/PDF/KD/1894   [P.T.O.

4. (a) Differentiate the contact and non-contact methods for quality control. 7

   (b) Explain-the plane surface, ruled surface and surface of revolution in detail. 8

UNIT–III

5. (a) Differentiate between the orthographic and perspective projections. 7

   (b) With neat diagram, describe different coding systems in Group Technology. 8

6. (a) Discuss various part classification and coding systems.

   8

   (b) Discuss the application of various geometric transformation using suitable examples. 7

UNIT–IV

7. (a) List and explain the functions of G and M-codes. 8

   (b) Explain different layout concept of FMS with their benefits. 7

8. (a) What is CAPP and discuss the benefits of CAPP ? 7

   (b) Discuss various types of CAPP systems. 8

───────────