

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

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
-