

Roll No.

Total Pages : 2

BT-6/M-20

36043

COMPUTER AIDED DESIGN AND MANUFACTURING

Paper : ME-308E

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *five* questions in all, selecting at least *one* question from each unit.

UNIT-I

1. (a) Explain impact of CAD/CAM on all aspects of product cycle. 10
(b) Describe the importance of intrinsic equations. 10
2. What is group technology ? Discuss in details. 20

UNIT-II

3. (a) Differentiate between translation and rotation with the help of example. 10
(b) Discuss translation of a line by 22 units in -ve direction. Assume the length and coordinate of the line. 10
4. (a) Deriving equation, giving the merits and demerits. Discuss the Hermite Cubic spline. 10
(b) Find the degree of the Bezier curve controlled by 3 points (4,2) (0,0) and (2,8). Also find the equation of the Bezier curve in parametric format with parametric "u". 10

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UNIT-III

5. Giving the parametric equations, explain the following type of surfaces:
- (a) Plane Surface.
 - (b) Ruled surface. 20
6. (a) What are the basic elements of boundary represented solid model scheme? 8
- (b) Develop an algorithm for planar intersection polygon of two solids using B rep. scheme. 12

UNIT-IV

7. What do you mean by FMS? Explain the basic components of FMS. 20
8. (a) List the steps involved in the development of a part program. 10
- (b) Explain the term computer assisted part programming. 10
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