

Roll No.

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BT-6 / M-18

**COMPUTER AIDED DESIGN AND
MANUFACTURING**

Paper-ME-308-E

Time allowed : 3 hours]

[Maximum marks : 100

Note :- Attempt five questions in all, selecting at least one question from each unit. All questions carry equals marks.

Unit-I

1. What are the basic reasons for implementing CAD/CAM applications in Design and manufacturing process? 20
2. What do you understand by cellular manufacturing system and cell design? What are the criteria used for cell design? 20

Unit-II

3. A rectangle ABCD has vertices A(1, 1), B(2, 1), C(2, 3), D(1, 3). It is to be rotated by 30° CCW about point (3, 2). Find the new coordinates of rectangle. 20
4. Explain Bezier curve with neat sketch. 20

Unit-III

5. Explain B-Spline surface with neat figure and state the advantages of this surface over Bezier surface. 20
6. What are the basic elements of boundary represented solid model scheme? Explain briefly. Develop an algorithm for planar intersection polygon of two solid using B rep. scheme. 20

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[Turn over

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Unit-IV

7. Write a note on .

- (a) Explain use of PLC in NC controller system. 10
- (b) Compare Absolute and Incremental coordinate system. 10

8. Write a note on

- (a) What are the basic parts of a computer aided programming system? 10
- (b) Discuss the importance of material handling devices used in an FMS. 10

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