

Roll No.

22602

**M. Tech. 1st Semester (ME) CBCS Scheme
Examination – January, 2023**

COMPUTER AIDED DESIGN & MANUFACTURING

Paper : MTME21D2

Time : Three hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : All questions carry equal marks. Attempt any *five* questions.

1. Explain the explicit, implicit, intrinsic and parametric equations. 20

2. Discuss the concept of Transformation between co-ordinate system and in a point text (3, 2) is to be scaled by a factor of 2 and rotated by 45°. Determine the transformed position using sequential transformation. 20

3. Discuss the Bezier curves & B-splines curve with neat sketch. 20

4. What is bi-cubic surfaces and Bezier surfaces ? Explain. 20
 5. Compare the NC, CNC & DNC Systems. 20
 6. Explain the Open loop and closed loop systems with the help of suitable example. 20
 7. What is a Flexible manufacturing system? Explain the advantages disadvantages and limitations of FMS. 20
 8. Discuss the various types of automated Material handling. 20
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