

Total No. of Questions : 4]

SEAT No. :

P5433

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[6186]-561

**S.E. (Mechanical/Sandwich)/(Automobile & Mechanical)/
(Automation & Robotics) (Insem)**

**SOLID MODELING AND DRAFTING
(2019 Pattern) (Semester - III) (202042)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) What are the different types of CAD software modules? Explain any three in detail. [7]

b) What is computer-aided design? Explain Features, requirements and applications. [8]

OR

Q2) a) Compare Wireframe and Solid Modeling with suitable examples and sketches. [8]

b) Explain the concept of VRML web based viewing with a suitable example. [7]

Q3) a) Explain Bezier curve and B-Spline curve with a neat sketch. [6]

b) Write a parametric equation of circle having center at (3, 3, 0) and radius of 3 units. Calculate the co-ordinates of points on the circle, if it is divided in eight parts. [9]

OR

Q4) a) Explain Point Cloud Data and its various file formats. [7]

b) Explain Surface Modeling with its advantages, disadvantages and applications. [8]

