Total No. of Questions : 4]

**PA-438** 

SEAT No. :

[Total No. of Pages : 1

[5931]-74

S.E. (Automobile & Mechanical Engg./Mechanical S/W/

Automation & Robotics)

## SOLUD MODELING & DRAFTING

(2019 Pattern) (Semester - I) (202042)

Time : 1 Hour]

[Max. Marks: 30

Instructions to the candidates:

- 1) Attempt Question 1 or 2 and Question 3 or 4.
- 2) Figures to the right indicate full marks.
- 3) Draw the neat sketch wherever necessary.

Q1) a) What is computer-aided design? Explain the phases involved in it. [6]

- b) Explain the difference between Wireframe. Surface & Solid Modeling with suitable examples and sketches. [9]
- Q2) a) Explain the feature-based geometric modeling approach with suitable examples. [8]
  - b) Explain the concept of VRML web-based viewing with a suitable example.[7]
- Q3) a) Explain C<sup>0</sup>, C<sup>1</sup>, and C<sup>2</sup> continuities with a neat sketch.
  - b) Write the parametric equation of line with endpoints A(1, 1,  $\Phi$ ) and B(6, 8, 10). Find the coordinate of points at u = 0.25, 0.50, 0.75. [9] OR

(Q4) a) Distinguish between analytical and synthetic curves [6]

b) Write Parametric Equation of Circle with center C(4, 4) and Radius 5 units. Find coordinates of points on circle at 30°, 45° and 60°. [9]