Total No. of Questions : 4]

SEAT No. :

PC-439

[Total No. of Pages : 2

[6359]-560

S.E. (AUTOMOBILE & MECHANICAL/MECHANICAL S.W/ AUTOMATION & ROBOTICS) (Insem.)

SOLID MODELING & DRAFTING

(2019 Pattern) (Semester - III) (202042)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates :

1) ***Answer Q.1 or Q.2, Q.3 or Q.4.***
2) ***Neat diagrams must be drawn whenever necessary.***
3) ***Figures to the right side indicate full marks.***
4) ***Assume the suitable data, if necessary.***

Q1) a) Explain any four from following software modules of CAD, **[8]**

i) Collaboration module

ii) Operating system module

iii) Geometric module

iv) Applications module

v) Programming module

vi) Communication module

b) What is Product Life Cycle? Explain various steps involved Engineering Design process? **[7]**

OR

Q2) a) Explain the concept of Primitives, Features and Sketching in detail. **[6]**

b) Compare Wireframe, Solid and Surface Modeling with suitable example.**[9]**

P.T.O.

Q3) a) Explain Zero Order, First Order and Second Order continuities with a neat sketch. **[6]**

b) A line is represented by end points P (5, 7, 2) and Q (-4, 6, 3). If 'u' at P and Q is 0 and 1 respectively, determine its length. Also determine the co-ordinates of points represented by u=0.4, u=0.25 and u=0.5. **[9]**

OR

Q4) a) Describe the Reverse Engineering Process with its important stages and applications. **[7]**

b) Explain Bezier surface and B-Spline surface with suitable sketches. **[8]**

♦ ♦ ♦