Code: 15A03101a

# B.Tech I Year II Semester (R15) Regular \& Supplementary Examinations May/June 2019 <br> ENGINEERING DRAWING <br> (Common to ECE, EIE \& FT) 

Time: 3 hours
Max. Marks: 70
(Answer all five units, $05 \times 14=70$ Marks)
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## UNIT - I

1 Construct an ellipse, with distance of the focus from the directrix as 50 mm and eccentricity as $2 / 3$. Also draw normal and tangent to the curve at a point 60 mm from the directrix.

OR

4 (a) Two points $A$ and $B$ are in the H.P. The point $A$ is 30 mm in front of the V.P., while $B$ is behind the V.P. The distance between their projectors is 75 mm and the line joining their top views makes an angle of $45^{\circ}$ with $x y$. Find the distance of the point $B$ from the V.P.
(b) A point D is 50 mm from both H.P and V.P. Draw its projections in all possible positions.

## UNIT - III

The projectors of the ends of a line $A B$ are 50 mm apart. The end $A$ is 20 mm above the H.P and 30 mm in front of the V.P. The end B is 10 mm below the H.P and 4 cm behind the V.P. Determine true length and traces of $A B$ and its inclinations with the two planes.

## OR

A square prism, base 25 mm side and height 50 mm has its axis inclined at $45^{\circ}$ to H.P and has an edge of its base, on H.P and inclined at $30^{\circ}$ to the V.P. Draw its projections.

## OR

A hexagonal pyramid of side 30 mm and axis height 70 mm is resting on H.P being one side of the base parallel to the V.P. Draw the development of the lateral surface of the solid.

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UNIT - V
9 Draw the isometric view of a cube of side 30 mm when a sphere of 25 mm radius is resting centrally on its top.

OR
10 Draw the front view, top view and the left side view of the drawing given in figure below, considering all the dimensions in mm .


