

Code: EC2T6

I B. Tech - II Semester – Regular Examinations - JULY 2015

**ENGINEERING DRAWING
(ELECTRONICS & COMMUNICATION ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Answer any *FIVE* questions. All questions carry equal marks
5 x 14 = 70 M

1. Construct a scale of 1.5 cm = 1 dm to read up to 1 metre and show on it a length of 0.6 metre. 14 M
2. The vertex of a hyperbola is 65 mm from its focus. Draw the curve if the eccentricity is $\frac{3}{2}$. Draw a normal and tangent at a point on the curve, 75 mm from the directrix. 14 M
3. A line AB, 65 mm long, has its end A 20 mm above the H.P. and 25 mm in front of the V.P. The end B is 40 mm above the H.P. and 65 mm in front of the V.P. Draw the projections of AB and show its inclinations with the H.P. and the V.P. 14 M
4. Draw the projections of a circle of 50 mm diameter resting in the H.P. on a point A on the circumference, its plane inclined at 45° to the H.P. and the top view of the diameter AB making 30° angle with the V.P. 14 M

5. A hexagonal prism, base 30 mm side and axis 75 mm long has an edge of base parallel to the H.P. and inclined at 45° to V.P. Its axis makes an angle of 60° to the H.P. Draw its projections.

14 M

6. A hexagonal pyramid, base 30 mm side and axis 60 mm long, has a triangular face on the H.P. and the axis parallel to the V.P. It is cut by a horizontal section plane which bisects the axis. Draw the front view and sectional top view. 14 M

7. A cylindrical block of base, 60 mm diameter and height 80 mm, standing on the H.P. with axis perpendicular to the H.P. Draw its isometric view. 14 M

8. Draw the orthographic projections for the given isometric view in below figure. All dimensions are in mm. 14 M

