

Code: CE1T5, ME1T5, AE1T5

**I B. Tech - I Semester – Regular/Supplementary Examinations
November 2017**

**ENGINEERING DRAWING
(Common for CE, ME & AE)**

Duration: 3 hours

Max. Marks: 70

Answer any *FIVE* questions. All questions carry equal marks

5 x 14 = 70 M

1. Construct a diagonal scale of R.F 1: 40 to read meters, decimeters and centimeters to measure up to 6 m. Mark on it a distance of 3.47 m. 14 M
2. A point F is 50 mm from a vertical straight line AB. Draw locus of point P, moving in a plane such that it is always remains equidistant from point F and line AB. Draw a normal and tangent at any point on the curve. Name the curve. 14 M
3. The top view of a line of 70 mm measures 50 mm and front view measures 60 mm. It's one end is 8 mm above the H.P. and 12 mm in front of the V.P. Draw the projections of the line showing the inclinations with H.P and V.P. 14 M

4. A semi-circular lamina of 60 mm diameter rests on its straight edge in V.P, such that its surface makes an angle of 45° with V.P and the edge is making an angle of 30° with H.P. Draw the projections. 14 M
5. A hexagonal pyramid base 25 mm side and axis 55 mm long has one of its slant edges on the ground. A plane containing that edge and the axis is perpendicular to the H.P and inclined at 45° to the V.P. Draw its projections when the apex is nearer the V.P than the base. 14 M
6. A square prism of 30 mm base edges and 60 mm long is resting on a longer edge on the ground. Its axis is 45° to the VP. A section plane parallel to HP cuts the object. It is 30 mm from the longer edge which is on the ground. Draw the sectional view from the above. 14 M
7. Draw the isometric projection of the object whose orthographic views are given in figure 1.
All dimensions are in mm. 14 M

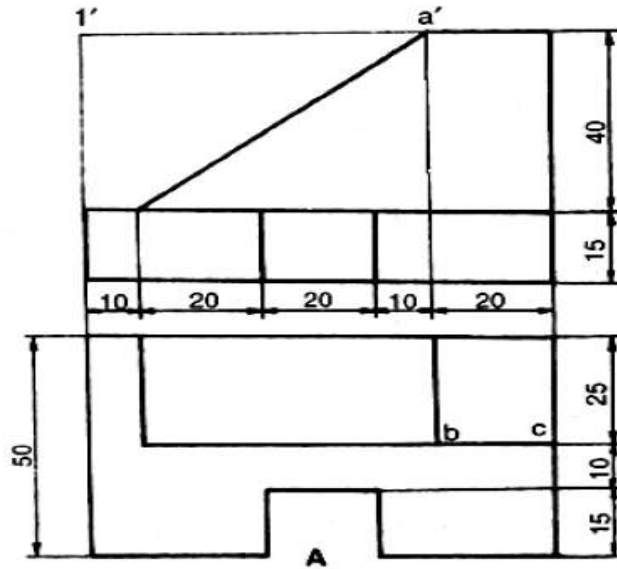


Figure: 1

8. Draw the front view, top view and side view for the following part shown in figure 2.

14 M

All dimensions are in mm.

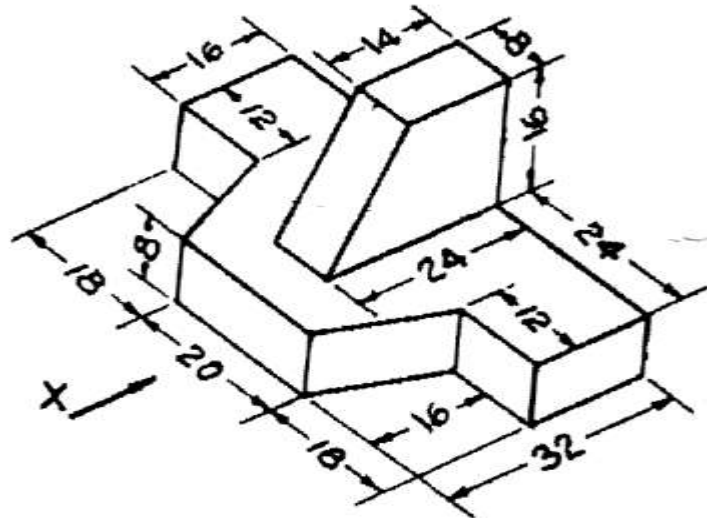


Figure: 2