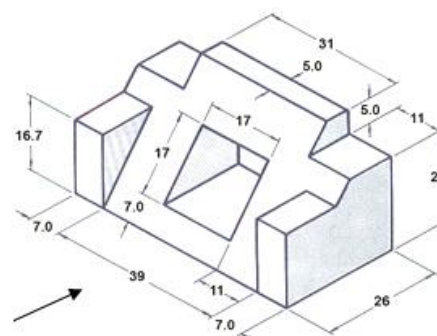


ENGINEERING DRAWING**(Civil Engineering)****Time: 3 Hours****Max. Marks: 60****Note:** Answer any **FIVE** questions. All Questions carry equal Marks.**5 × 12 = 60M**

1. Draw an ellipse when the distance of its vertex from its directrix is 24mm and distance of its focus from directrix is 42mm.
2. The actual length of 300 meters is represented by a line of 10 cm on a drawing. Draw a vernier scale to read up to 500 meters. Mark on it a length of 367 meters.
3. a) The top view of a line AB of length 75 mm is 45 mm. Draw the projections when the line lies on VP and one end lies 20 mm above HP. (6M)
b) A 70 mm long line AB lying in the H.P. is inclined at 45° to the V.P. end A is in the V.P. Draw its projections. (6M)
4. A line AB of 80 mm long has its end A on HP and 25 mm in front of VP. The line is inclined at 30° to HP and 45° to VP. Draw its projections, when the end B is in the fourth quadrant.
5. The diagonals of a rhombus measure 90 mm and 45 mm. The longer diagonal is inclined at 30° to H.P. with an end in H.P. and the smaller diagonal is parallel to both the principal planes. Draw its projections.
6. A hexagonal pyramid of base edge 30 mm and axis 60mm, has a triangular face on the ground and the axis parallel to the V.P. Draw its projections.
7. Draw the isometric projection of a frustum of a pentagonal pyramid of base side 40 m, top side 20 mm and height 35 mm resting on its base on the H.P.
8. Draw the following views for the object shown.
(i) Front view (ii) Top view (iii) Left side view



BACK-UP SLIDE
SCALE 2:1