

I B. Tech II Semester Supplementary Examinations, November - 2021**ENGINEERING DRAWING**

(Com. to CE, ME, CSE PCE, IT, Chem. E, Aero E, Auto E, Min E, Pet E, Metal E and Textile Engg)

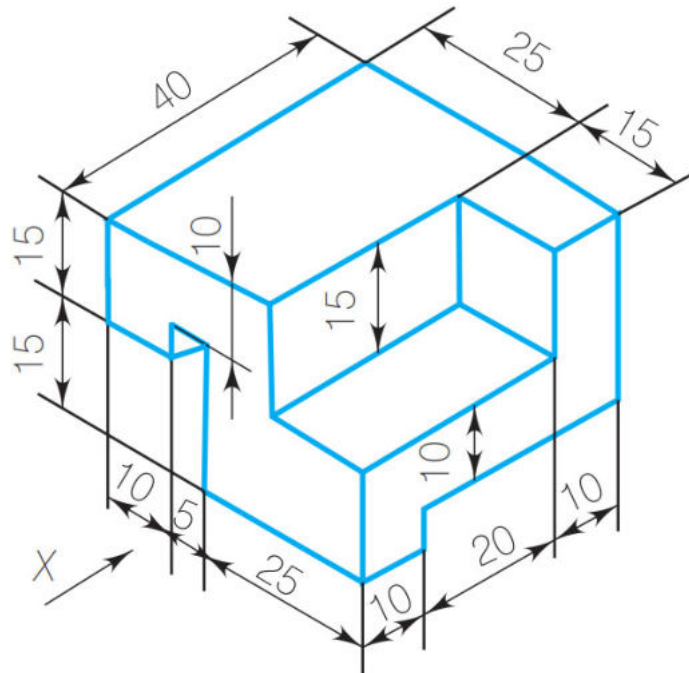
Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answering the question in **Part-A** is Compulsory
 3. Answer any **THREE** Questions from **Part-B**

PART -A

1. a) Draw the front view, top view and left side views of a bracket as shown in figure. (16M)
 All dimensions are in mm



- b) An equilateral triangle of 40mm side is parallel to V.P. perpendicular to H.P. (6M)
 Draw its projections when one of the side is Inclined 45° to H.P.

PART -B

2. a) Construct an ellipse of major axis 120 mm and minor axis 90 mm. Draw a tangent (8M)
 and normal at a point on the curve which is at a distance of 20 mm from major axis.
 b) Draw a diagonal scale of RF 3/100 showing metres, decimetres and centimetres, (8M)
 and to measure up to 4 m. Show the length 3.19 m on it.
3. a) Two points A and B are in the H.P. The point A is 30mm in front of the V.P., (8M)
 while B is behind the V.P. The distance between their projectors is 75mm
 and the line joining their top views makes an angle of 45° with xy. Find the
 distance of the point B from the V.P.

- b) A straight line AB of 40 mm length has one of its ends, A, at 10 mm from the HP and 15 mm from the VP. Draw the projections of the line if it is parallel to the VP and inclined at 30° to the HP. (8M)
4. A line PQ, 140mm long, is inclined at 45° to the H.P. and at 30° to the V.P. Its end P is in the second quadrant and Q is in the fourth quadrant. A point R on PQ, 50mm from P is in both the planes. Draw the projections of PQ. (16M)
5. Draw the projections of a circle of 55 mm diameter having the end A of a diameter AB in the H.P., the end B in the V.P., and the surface inclined at 30° to the H.P. and at 60° to the V.P (16M)
6. a) Draw the projections of a pentagonal prism, base 25mm side and axis 50mm long, resting on one of its rectangular faces on the H.P., with the axis inclined at 45° to the V.P. (12M)
- b) A cylinder of base diameter 20 mm and the length of the axis 50 mm, has its axis perpendicular to the vertical plane and parallel to the HP and the VP. Draw the projections. (4M)
- 7 Draw the isometric view of the projections given below (16M)

