I B. Tech I Semester Supplementary Examinations, August/Sep - 2022
ENGINEERING DRAWING
(Com. to ECE, EIE, Bio-Tech, E Com E, Agri E, EEE)

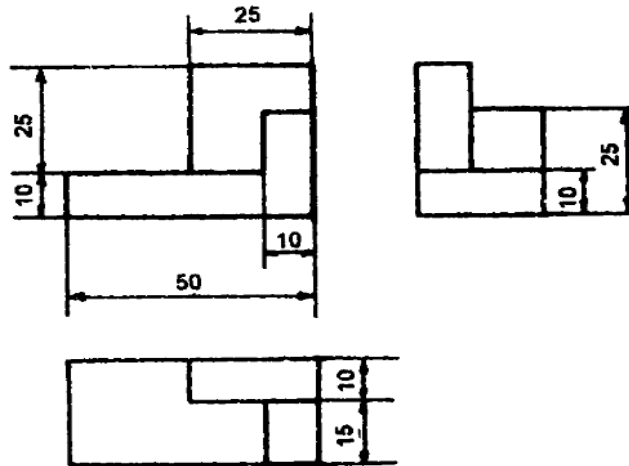Time: 3 hours   Max. Marks: 70

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**
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PART –A

1. a) Draw the isometric view of the casting given below (all dimensions are in mm)   (18M)

   b) Construct a Pentagon of 30mm side, with its one side in vertical position.   (4M)

PART -B

2. a) Inscribe an ellipse in a rectangle having sides 150mm and 100mm long.   (8M)

   b) The actual length of 500 m is represented by a line of 15 cm on a   (8M)
   drawing.Construct a vernier scaleto read upto 600 m. Mark on the scale a length
   of549 m.

3. a) Draw the projections of the following points on the same ground line, keeping the   (8M)
   Projectors 20mm apart.
             (a) Point P, 25mm above the H.P. and 30mm infront of the V.P.
             (b) Point Q, on the H.P. and 40mm behind the V.P.
             (c) Point R, 20 mm above the H.P. and in the V.P.
             (d) Point S,15mm behind the V.Pand 50mm above the H.P.
   b) A line GH 45 mm long is in HP and inclined to VP. The end G is 15 mm in front   (8M)
   of VP. The length of the front view is 35 mm. Draw the projections of the line.
   Determine its inclination with VP.

4. A line measuring 80 mm long has one of its ends 60 mm above HP and 20 mm in   (16M)
   front of VP. The other end is 15 mm above HP and in front of VP. The front view
   of the line is 60 mm long. Draw the top view. Find the true inclinations of the line
   and locate its traces.

5. A semicircular plate of 50 mm diameter rests on its diameter on the H.P with the surface inclined 30^0 to the H.P and the diameter edge is inclined at 45^0 to the V.P. draw the projections of the plate. (16M)

6. A cone with base 30mm diameter and axis 45mm long lies on a point of its base on V.P such that the axis makes an angle 45^0 with V.P. Draw the projections of the cone. (16M)

7. Draw the Front View, Top view & Both side views of the figure given below (16M)