

Subject Code: R13109/R13

Set No - 1

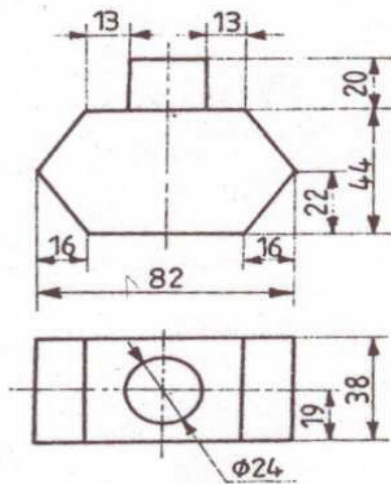
I B. Tech I Semester Supplementary Examinations Dec - 2016
ENGINEERING DRAWING
(Com. to ECE, EIE, Bio-Tech.E, E Com. E, Agri.E, EEE)

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

1. a) Two views of a casting are shown in figure . Draw the isometric view of the casting (All dimensions are in mm). (12M)



- b) A room measures 8m long, 5m wide and 4m high. An electric bulb hangs in the centre of the ceiling and 1m below it. A thin straight wire connects the bulb to a switch kept in one of corner of the room and 1.25m above the floor. Draw the projections of the wire, also determine its true length and slope with the floor. (10M)

PART-B

2. a) Construct a vernier scale of 1 : 40,000, showing kilometres, hectometres and decametres and long enough to measure 5 km. Mark distances of 2.34 km and 3.92 km on the scale.
b) Inscribe an ellipse in a rectangle having sides 120mm and 80mm long. (8M+8M)

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3. a) A point P is 25mm in front of the V.P. and 40 mm above the H.P. Another point Q is 40mm in front of the V.P. and 25mm above the H.P. The distance measured between the projectors is 40mm. Draw the projections and find the distance between P and Q.
b) Draw the projections of a 70mm long straight line, in the following positions
 - i) Parallel to and 40mm in front of the V.P and in the H.P.
 - ii) Perpendicular to the H.P, 20mm in front of the V.P and its one end 15mm above the H.P.
 - iii) Perpendicular to the H.P, in the V.P. and its one end in the H.P. (7M+9M)
4. The front view of a 120 mm long line PQ measures 80 mm and its top view measures 100 mm. Its end Q and the mid-point M are in the first quadrant, M being 20 mm from both the planes. Draw the projections of the line PQ. (16M)
5. A regular hexagon of 40mm side has a corner in the HP. Its surface is inclined at 45° to the HP and the top view of the diagonal passing through the corner which is in the HP makes an angle of 60° with the VP. Draw its projections. (16M)
6. a) Square pyramid base 40 mm side, axis 60 mm long has its base in V.P. one edge of base inclined to 30° to H.P. and corner contained by that edge is on H.P. Draw its projections
b) A cone of base diameter 40 mm and axis 70 mm long rests with one of the points on the circumference of its base on H.P. Its axis is inclined at 35° to H.P. and parallel to V.P. Draw its projections. (8M+8M)
7. Draw the Front View, Top view & Both side views of the figures shown below. All dimensions are in mm. (16M)

