Code No: R161113 **R16** SET - 1

I B. Tech I Semester Supplementary Examinations, April – 2022
ENGINEERING DRAWING
(Com. to ECE, EIE, E Com E)

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 **FOUR** Questions from **Part-B**

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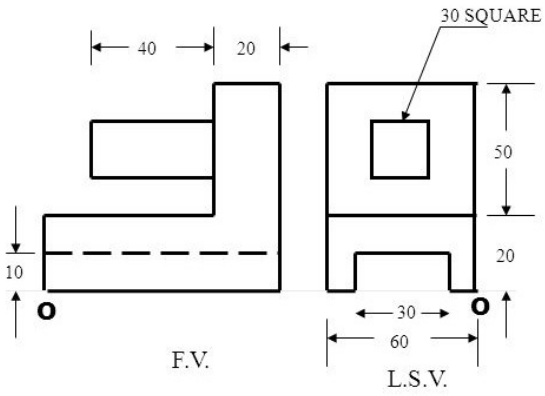
PART –A

1. a) (a) Point A is 20mm above HP and 30mm in front of VP. Draw its front view and top view. (8M)
(b) A point M is 35mm above HP and 45 mm in front of VP. Draw its projections.
(c) Draw the projections of a point A lying on HP and 30mm in front of VP.

b) Draw the isometric view of the below solid block, shown in figure. All dimensions are in mm. (14M)



PART –B

2. Construct an ellipse, with distance of the focus from the directrix as 50 mm and eccentricity as 2/3. Also draw normal and tangent to the curve at a point 40 mm from the directrix. (16M)

3. a) A line AB is 30 mm long and inclined at 30^0 to VP and parallel to HP. The end A of the line is 15 mm above HP and 20mm in front of VP. Draw the projections. (8M)

b) A line CD of 100 mm length is inclined at 30^0 to HP and 45^0 to VP. The point A is 15 mm above HP and 20mm in front of VP. Draw the projections of the line. (8M)

4. A line PQ, 100mm long, is inclined at 30^0 to the H.P. and at 45^0 to the V.P. Its mid point is in the V.P. and 20mm above the H.P. Draw its projections, if its end P is in the third quadrant and Q in the first quadrant. (16M)

5. A regular pentagon of 30mm side, is resting on one of its edges on H.P. which is inclined at 45^0 to V.P. Its surface is inclined at 30^0 to H.P. Draw its projections. (16M)
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6. 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 45^0 to the V.P. (16M)

7. Draw (i) Front view (ii) Both side views (iii) Top view of Figure. (All dimensions are in mm) (16M)