

Subject Code: R10205/R10

**Set No - 1****I B. Tech II Semester Supplementary Examinations April/May - 2017****ENGINEERING DRAWING**

(Common to All Branches)

**Time: 3 hours****Max. Marks: 75****Answer any FIVE Questions  
All Questions carry equal marks**

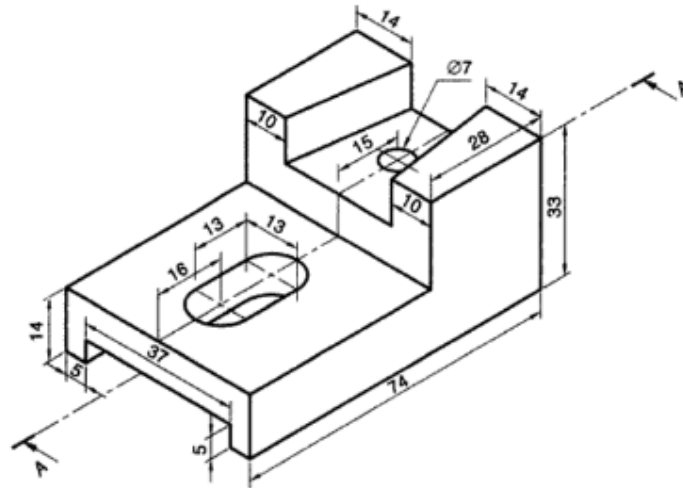
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1. a) The foci of an ellipse are 80mm apart and the minor axis is 55mm long. Determine the length of the major axis and draw the ellipse by arcs of circles method. Draw a curve parallel to the ellipse and 20mm away from it.  
b) Construct a regular pentagon of 40mm side. (10+5)
2. a) A point P is 30mm from both the reference planes. Draw its projections in all possible positions.  
b) A line AB is 30 mm long and inclined at  $30^{\circ}$  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. (8+7)
3. Draw the projections of a line AB, 90mm long, its midpoint M being 50mm above the H.P. and 40mm in front of the V.P. The end A is 20mm above the H.P. and 10mm in front of the V.P. Show the inclinations of the line with the H.P. and the V.P. (15)
4. A regular hexagon of 40mm has one of the side in the V.P. and inclined at  $60^{\circ}$  to H.P. Its surface is inclined at  $45^{\circ}$  to the V.P. Draw its projections. (15)
5. Hexagonal Prism side of base 35 mm and axis 55 mm long rests with one of the corners of its base on H.P. Its axis is inclined at  $30^{\circ}$  to H.P. and parallel to V.P. Draw its projections. (15)
6. 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  $30^{\circ}$  to H.P. and parallel to V.P. Draw its projections. (15)

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7. For the object show in fig below, Draw (i) Front View (ii) Top View (iii) Left Side view Use first angle projection method.



(15)

8. Draw the isometric view of the ribbed angle plate, Shown in figure. All dimensions are in mm.

(15)

