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## I B. Tech I Semester Supplementary Examinations, Oct/Nov - 2018 ENGINEERING DRAWING (Com. to EEE,ECE,EIE,Bio-Tech,ECom E,Agri E)

**R13** 

Time: 3 hours

Code No: R13109

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

- 2. Answering the questions in **Part-A** is Compulsory
- 3. Answer any **THREE** Questions from **Part-B**

## PART –A

1. a) Draw the isometric view of the object whose orthographic projections are shown (12M) in figure.



b) The foci of an ellipse are 85mm apart and the minor axis is 60mm long. Determine (10M) the length of the major axis and draw the ellipse by oblong method.



- 2. a) Construct a Hexagon of 30mm side, with its side in (6M) (i) Horizontal position (ii) vertical position. (6M)
  - b) Construct a forward reading vernier scale to read distance correct to decameter on (10M) a map in which the actual distances are reduced in the ratio of 1: 40,000. The scale should be long enough to measure up to 6 km. Mark on the scale a length of 3.34 km and 0.59 km.
- 3. a) A point P is 40mm from both the reference planes. Draw its projections in all (6M) possible positions.
  - b) The top view of a 75mm long line measures 55mm. The line is in the VP, its one (5M) end being 25mm above the HP, Draw its projections.
  - c) The front view of a line, inclined at  $60^{\circ}$  to the VP is 70mm long. Draw the (5M) projections of the line, when it is parallel to and 30mm above the HP., its one end being 20mm in front of the VP.

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**SET - 1** 

- 4. a) Draw the projections of a line AB, 90mm long, its midpoint M being 50mm above (16M) the HP. and 40mm in front of the VP. The end A is 20mm above the HP. and 10mm in front of the VP. Show the inclinations of the line with the HP. and the VP. Locate the traces.
- 5. a) A circular plane of 60mm diameter rests on VP. on a point A on its circumference. (16M) Its plane is inclined at 45<sup>0</sup> to VP. Draw the projections of the plane when
  (i) The front view of the diameter AB makes 300 with HP. and
  (ii) The diameter AB itself makes 300 with HP.
- 6. a) A pentagonal pyramid with side of base 35mm and axis 70mm long is lying on (16M) one of its base edges on HP so that the highest point of the base is 25mm above HR, and an edge of the base is perpendicular to VP.
- 7. a) Draw the Front View, Top view & Both side views of the figures shown below. (16M) All dimensions are in mm.



