www.FirstRanker.com

## R13

SET - 1

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

Time: 3 hours
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 in figure.

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

## PART -B

2. a) Construct a Hexagon of 30 mm side, with its side in
(i) Horizontal position
(ii) vertical position.
b) Construct a forward reading vernier scale to read distance correct to decameter on 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 40 mm from both the reference planes. Draw its projections in all possible positions.
b) The top view of a 75 mm long line measures 55 mm . The line is in the VP , its one end being 25 mm above the HP, Draw its projections.
c) The front view of a line, inclined at $60^{\circ}$ to the VP is 70 mm long. Draw the projections of the line, when it is parallel to and 30 mm above the HP., its one end being 20 mm in front of the VP.

## R13

SET - 1
4. a) Draw the projections of a line $A B, 90 \mathrm{~mm}$ long, its midpoint M being 50 mm above the HP. and 40 mm in front of the VP. The end A is 20 mm above the HP. and 10 mm 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 60 mm diameter rests on VP. on a point A on its circumference.

Its plane is inclined at $45^{0}$ 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 35 mm and axis 70 mm long is lying on one of its base edges on HP so that the highest point of the base is 25 mm 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.

All dimensions are in mm .


2 of 2

