# I B. Tech. II Semester Regular Examinations, June 2015 <br> ENGINEERING DRAWING (Computer Science \& Engineering) 

## Time: 3 Hours

Max. Marks: 60
Note: Answer any Five Questions. All questions carry equal marks.

1. a) Construct a regular pentagon of 30 mm side by any two different methods
b) Draw a diagonal scale of R.F. $=3 / 100$ showing metres, decimeters and centimeters and to measure upto 5 metres. Show the length of 3.69 metres on it.
2. Construct a parabola if the distance of focus from the directrix is 40 mm and eccentricity is 1 .Draw a normal and tangent at a point which is 52 mm from the focus.
3. a) Draw the projections of the following points
i) Point A is 28 mm above HP and 35 mm behind VP.
ii) Point B is 40 mm below HP and 22 mm behind VP.
iii) Point C is in HP and 20 mm in front of VP
b) A point A is 30 mm above HP and 40 mm in front of VP. Another point B is 60 mm behind VP and 50 mm below HP. Draw the projections of the points A \& B keeping the projector distance as 100 mm . Draw straight lines joining front views and top views.
4. The projectors drawn from the H.T. and the VT. of a straight line AB are 80 mm apart while those drawn from its ends are 50 mm apart. The H.T. is 35 mm behind the VP. and the VT. is 55 mm below the H.P. and the end A is 10 mm below the H.P. Draw the projections of AB, determine its true length and inclinations with reference.
5. Draw the projections of a rhombus having diagonals 125 mm and 50 mm long, the smaller diagonal of which is parallel to both the principal planes, while the other is inclined at 30 degrees to the HP.
6. A cone of base of diameter 50 mm and height 70 mm has one of its generators in HP and making an angle of $30^{\circ}$ with VP. Draw the projections when the apex is nearer to VP.
7. Draw the isometric view of the object shown in figure below. All dimensions are in mm .

8. Draw the following views for the object shown.
i) Front view
ii) Top view
iii) Left side view

