# I B. Tech II Semester Supplementary Examinations, April/May - 2018 <br> ENGINEERING DRAWING <br> (Com. to CE, ME \& Textile Engg) 

Time: 3 hours
Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)<br>2. Answering the question in Part-A is Compulsory<br>3. Answer any THREE Questions from Part-B

## PART -A

1. a) Divide a line of 110 mm long into 15 equal parts.
b) Draw a pentagon of side 40 mm when its side is horizontal and vertical.
c) Draw the projections of the Point C lies 30 mm from the HP and 20 mm from the
c) Draw the projections of the Point C lies 30 mm from the HP and 20 mm from the VP.
d) A hexagonal plane of side 40 mm is resting on its corner passing through the diagonal on HP. Draw the projections.
e) Draw the projections of a cone of diameter 30 mm and 80 mm long resting on HP on its apex with its axis parallel to and 40 mm in front of the VP.
f) Draw the 3-orthographic views of a regular 40 mm cube with its faces mutually parallel to planes of projecting.

## PART -B

2. a) The major axis of an ellipse is 150 mm long and the minor axis is 100 mm long. Find the foci and draw an ellipse by 'arcs of circles' method. Draw a tangent to the ellipse at a point on it 25 mm above the major axis.
3. a) Draw the projections of the following points on the same ground line, keeping the Projectors 25 mm apart.
i. A, in the HP and 20 mm behind the VP.
ii. B, 40 mm above the HP and 25 mm in front of the VP.
b) Draw the projections of a 65 mm long straight line, in the following positions :
i. Parallel to both the HP and the VP and 25 mm from each.
ii. Perpendicular to the HP in the VP and its one end in the HP.
4. a) A regular pentagon of 25 mm side has one side on the ground. Its plane is inclined at $60^{\circ}$ to the HP. and perpendicular to the VP. Draw its projections.
b) A line MN 50 mm long is parallel to VP. and inclined at $45^{\circ}$ to HP. The end M is 20 mm above HP. and 10 mm in front of VP. Draw the projections of the line.
www. Manaresults.co.in
5. a) Draw the projections of a circle of 5 cm diameter, having its plane vertical and
inclined at $30^{\circ}$ to the VP. Its centre is 3 cm above the HP and 2 cm in front of the VP.
b) An equilateral triangular lamina of side 30 mm is parallel to HP and perpendicular
b) AP. One of its sides is 20 mm in front of VP and 30 mm above HP. Draw its projections.
6. A hexagonal prism has one of its rectangular faces parallel to the HP. Its axis is perpendicular to the VP and 3.5 cm above the ground. Draw its projections when the nearer end is 2 cm in front of the VP. Side of base 2.5 cm long, axis 5 cm long.
7. Draw the elevation, plan and left and right views of the part shown in the figure-1. -
