

Code: CEIT5, MEIT5, AEIT5

I B. Tech - I Semester – Regular Examinations - November 2015

ENGINEERING DRAWING
(Common for CE, ME, AE)

Duration: 3 hours

Max. Marks: 70

Answer any *FIVE* questions. All questions carry equal marks
 $5 \times 14 = 70$ M

1. Construct a scale of 1:5 to show decimeters and centimeters and to read up to 1 metre. Show the length of 7.6 dm on it.
14 M
2. Inscribe an ellipse in a parallelogram having sides 150 mm and 100 mm long and an included angle of 120° . 14 M
3. The top view of a 75 mm long line AB measures 65 mm, while the length of its front view is 50 mm. It's one end A is in the H.P. and 12 mm in front of the V.P. Draw the projections of AB and determine its inclinations with the H.P. and the V.P. 14 M
4. A rectangular plane surface of size L x W is positioned in the first quadrant and is inclined at 60° with the H.P. and 30° with the V.P. Draw its projections. 14 M

5. Draw the projections of a cone, base 75 mm diameter and axis 100 mm long, lying on the H.P. on one of its generators with the axis parallel to the V.P. 14 M
6. A cylinder of 40 mm diameter, 60mm height and having its axis vertical, is cut by a section plane, perpendicular to the V.P., inclined at 45° to the H.P. and intersecting the axis 32mm above the base. Draw its front view, sectional top view, sectional side view and true shape of the section. 14 M
7. A hexagonal prism having the side of base 26 mm and the height of 60 mm is resting on one of the corner of the base and its axis inclined to 30° to the H.P. Draw its projections and also prepare the isometric view of the prism in the above stated condition. 14 M
8. Draw the orthographic projections for the given isometric view in below figure. All dimensions are in mm. 14 M

