



First/Second Semester B.E. Degree Examination, June/July 2019

COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max. Marks: 100

- Note:** 1. Answer three full questions. 2. Use A4 sheets supplied.
3. Draw to actual scale. 4. Missing data, if any, may be assumed suitably.

1. a. A point is lying on VP, 10 mm below HP and 30 mm behind / in front / from LPP. **10 Marks**
Draw its projections and name the side view.
- b. A line has its end A, 15mm from HP and 10mm from VP. The end B is 55mm from HP and the line is inclined at 30° to HP. The distance between the end projectors is 50 mm. Draw the projections of the line. Determine the true length of the line and its inclinations with VP. **20 Marks**

OR

1. A hexagonal lamina of sides 25mm rests on one of its corners on HP. The Corner opposite to the corner on which it rests is 35mm above HP and the diagonal passing through the corner on which it rests is inclined at 30° to VP. Draw its projections.. Find the inclination of the surface with HP. **30 Marks**
2. A Cone of 50mm base diameter and 60mm axis length rests on HP on one of its generators. Draw its projections when the axis is inclined to VP at 30° . **40 Marks**
3. A vertical cylinder of base diameter 50mm and axis length 60mm is cut by a two planes which are perpendicular to VP and inclined at 45° to HP and passing through either side the centre point of the top face. Draw the development of the lateral surface of the cylinder. **30 Marks**

OR

3. Three rectangular slabs (lxbxh) 100mm x 60mm x 20mm, 100mm x 40mm x 20mm and 100mm x 20mm x 20mm are placed one above the other in the descending order of their width-b, such that their longer axes are co-planar. Draw the isometric projection of the combination of solids. **30 Marks**

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