

First/Second Semester B.E. Degree Examination, December 2018

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 35 mm below HP, 15 mm behind VP and 25 mm behind / in front / from LPP. Draw its projections and name the side view. **10 Marks**
- b. The top view of a line PQ 75 mm long measures 50 mm and in the front view measures 60 mm. The end P is 30 mm above HP and 15 mm in front of VP. Draw the projections of the line and find its true inclinations with HP and VP. Find length of front view and distance between the end projectors. **20 Marks**

OR

1. A regular pentagonal lamina of 25 mm side is resting on one of its sides on HP while the corner opposite to this side touches VP. If the lamina makes an angle of 60° with HP, draw the projections of the lamina. **30 Marks**
2. A hexagonal pyramid 25 mm sides of base and 50 mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at 40° and to VP at 30° . **40 Marks**
3. A frustum of a pentagonal pyramid, smaller base sides 16 mm and bigger top face sides 32 mm and height 40 mm, is resting on the HP on its smaller base, with one of its base sides parallel to the VP. Draw the projections of the frustum and develop the lateral surface. **30 Marks**

OR

3. A sphere of diameter 50 mm rests centrally on top of a cube of sides 50 mm. Draw the isometric projections of the combination of solids. **30 Marks**

* * * * *