

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

COMPUTER AIDED ENGINEERING DRAWING

Duration: 03 Hours

(COMMON TO ALL BRANCHES)

Max Marks: 100

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

1. a. A point is 40 mm behind VP, 20 mm above HP and 30 mm in front / 10 Marks
behind / from LPP. Draw its projections and name the side view.
- b. The front view of a 90 mm long line which is inclined at 45° to the XY 20 Marks
line, measures 65 mm. End A is 15 mm above the XY line and is in VP.
Draw the projections of the line and find its inclinations with HP and VP.

OR

1. A pentagonal lamina of side 25 mm is having a side both on HP and VP. 30 Marks
The corner opposite to the side on which it rests is 15 mm above HP. Draw
the top and front views of the lamina.
2. A hexagonal pyramid 25 mm sides of base and 50 mm axis length rests on 40 Marks
HP on one of its edges of the base. Draw the projections of the pyramid
when the axis is inclined to HP at 45° and VP at 30° .
3. A hexagonal pyramid, base sides 25 mm and height 60 mm, is resting with 30 Marks
its base on HP and edge of base inclined at 40° to VP. It is cut to the shape
of a truncated pyramid with the truncated surface inclined in the front view
at a point on the axis 20 mm from the apex and inclined at 40° to XY.
Draw the projections and show the development of the lateral surface of
the remaining portion of the pyramid.

OR

3. A rectangular pyramid of base 40 mm X 25 mm and height 50 mm is 30 Marks
placed centrally on a cylindrical slab of diameter 100 mm and thickness
30 mm. Draw the isometric projection of the combination.