

CBCS SCHEME

18EGDL15/25

First/Second Semester B.E. Degree Examination, December 2019

ENGINEERING GRAPHICS

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. The front view of the line PQ 80 mm long measures 50 mm and it is inclined to XY (reference line) at 50° . One end of the line P is 20 mm above HP and 25 mm in front of the VP. Draw the front view and top view of the line and find the inclination of the line with HP and VP.

25 Marks

OR

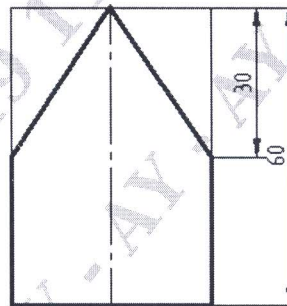
1. A triangular lamina of 25 mm sides rests on one of its corners on VP such that the median passing through the corner on which it rests is inclined at 30° to HP and 45° to VP. Draw its projections.

25 Marks

2. A hexagonal pyramid 25 mm sides of base and 50 mm axis length rests on 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° .

45 Marks

3. Develop the lateral surface of the cylinder of 40 mm diameter and height 60 mm which is cut in the following way.



30 Marks

OR

3. A frustum of a cone base diameter 50 mm, top face diameter 25 mm and height 50 mm is placed centrally on a square slab side 80 mm and thickness 30 mm. Draw the isometric projection of the combination.

30 Marks