

CBCS SCHEME

18EGDL15/25



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

ENGINEERING GRAPHICS

(COMMON TO ALL BRANCHES)

Time: 3 Hours

Max. Marks: 100

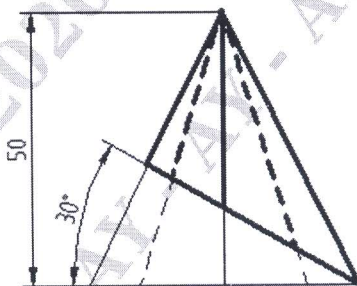
Note:

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 straight line PQ 65 mm long is inclined at 45° to HP and 30° VP. The point P is 70 mm from both the reference planes and the point Q is towards the reference planes. Draw the projections. **25 Marks**

OR

1. A square lamina ABCD of 40 mm side rests on a corner C such that the diagonal AC appears to be at 45° to VP. The two sides BC and CD containing the corner on which it rests make equal inclination with HP. The surface of the lamina makes 30° with HP. Draw its top and front views. **25 Marks**
2. A pentagonal prism of 25 mm sides of base and 60 mm axis 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 inclination with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at 40° and appears to be inclined to VP at 45° . **45 Marks**
3. A pentagonal pyramid of 30 mm edges of base and 50 mm height rests vertically with one of its base edges is parallel to VP and nearer to it. It is cut as shown in the following figure. Draw the development of the lateral surface of the upper portion of the pyramid. **30 Marks**



OR

3. A Rectangular Pyramid of base 40 mm x 25 mm and height 50 mm is placed centrally on a rectangular slab sides 100 mm x 60 mm and thickness 20 mm. Draw the isometric projection of the combination. **30 Marks**