

CBCS SCHEME

18EGDL15/25



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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. A line has one end 30 mm in front of VP and 15 mm above HP and the other end is 15 mm in front of VP and is above HP. Length of the line is 60 mm. Top view of the line is 40 mm long. Draw the two views of the line and obtain the inclination of the line with HP and VP.

25 Marks

OR

1. An equilateral triangular lamina of 25 mm side lies on one of its sides on HP. The lamina makes 45° with HP and one of its medians is inclined at 40° VP. Draw its projections.

25 Marks

2. A Pentagonal pyramid of 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 inclination 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° .

45 Marks

3. A Square pyramid of 25 mm and 50 mm height rests with its base on HP with all of its base edges equally inclined to VP. It is cut by a plane perpendicular to VP and inclined to HP at 60° passing through the extreme right corner of the base. Draw the development of the lateral surface of the pyramid.

30 Marks

OR

3. A Hemisphere of diameter 50 mm is centrally resting on top of a square prism of base side 60 mm and height 30 mm such that the curved surface of hemisphere is touching the top face of the prism. Draw isometric projections.

30 Marks