



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. A straight line PQ is inclined at 45° to HP and 30° to VP. The point P is in HP and the point Q is in VP. The length of the straight line is 65 mm. Draw the projections of the straight line PQ. 25 Marks

OR

1. A pentagonal lamina having edges 25 mm is placed on one of its corners on VP such that the surface makes an angle 30° with VP and perpendicular bisector of the edge passing through the corner on which the lamina rests is inclined at 45° to HP. Draw the top and front views of the lamina. 25 Marks
2. A hexahedron of 30 mm sides is resting on one of its corners on HP such that one of its solid diagonal is perpendicular to VP. Draw the projections of the solid. 45 Marks
3. A rectangular prism of base 30 mm X 20 mm and height 60 mm rests on HP on its base with the longer base side inclined at 40° to VP. It is cut by a plane inclined at 45° to HP, perpendicular to VP and bisects the axis. Draw the development of the lateral surface of the prism. 30 Marks

OR

3. A square prism of base side 30 mm and length 70 mm, is resting on its rectangular face on top of a square slab side 70 mm and 25 mm thick. Draw the isometric projection of the combination. 30 Marks