CBCS SCHEME

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18EGDL15/25

First/Second Semester B.E. Degree Examination, Dec.2024/Jan.2025

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 AB 100 mm long measures 80 mm in front view and 70 mm in top view the midpoint M of the line is 40 mm from both HP and VP. Draw its projections. Find its inclinations. **25 Marks**

OR

1. A regular hexagonal lamina of sides 30 mm is lying in such a way that one of its sides on HP while the side opposite to the side on which it rests is on VP. If the lamina makes 60° to HP, draw the projections of the lamina. **25 Marks**

2. A square pyramid 35 mm sides of base and 60 mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45°. **45 Marks**

3. A funnel is made of sheet metal. The funnel tapers from 60 mm to 30 mm diameters to a height of 25 mm and then forms a cylinder with a height of 50 mm. bottom of the funnel is beveled off completely at an angle of 45° to axis. Draw the development of the funnel. **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**

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