CBCS SCHEME

18EGDL15/25

First/Second Semester B.E. Degree Examination, Feb./Mar. 2022

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 is inclined to HP at 45^0 and inclined to VP at 30^0. The end A touches both HP and VP. Draw the front and top views of line and determine their lengths. Also determine the perpendicular distance of end B from both HP and VP. **25 Marks**

OR

1. A square plate of 40 mm sides rests on HP such that one of the diagonals is inclined at 30° to HP and 45° to VP. Draw its projections. **25 Marks**

2. A hexagonal prism 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 prism when the axis is inclined to HP at 45° and VP at 30°. **45 Marks**

3. A rectangular prism of base size 25 mm X 40 mm and axis length 65 mm is resting on HP on its base with the longer side of base inclined at 30° to VP. It is cut by a plane inclined at 40° to HP and perpendicular to VP and passes through the extreme left corner of base. Draw the development of the lateral surface of the remaining portion of the prism. **30 Marks**

OR

3. A hemisphere diameter 70 mm is placed on the ground on its curved surface. A come base diameter 70 mm and height 70 mm is placed centrally on it. Draw the isometric projection of the combination. **30 Marks**

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