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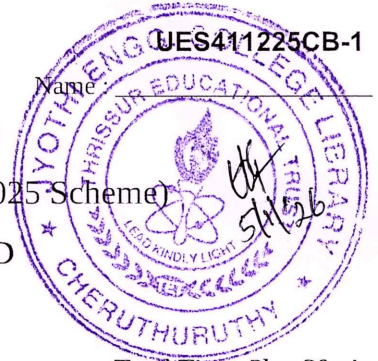
UES411225CB-1



Jyothi Engineering College(Autonomous)

B. Tech Degree S1 (R) Examination, December 2025 (2025 Scheme)

25EST103- ENGINEERING GRAPHICS AND
COMPUTER AIDED DRAWING



Total Mark: 60

Total Time: 2hrs 30min

CO MARK

Retain Construction lines. Show necessary dimensions. Each question carries 15 marks

MODULE 1

1. A line AB 70 mm long, has its end A 35 mm above HP and 30 mm in front of VP. The top view and front view have a length of 45 mm and 60 mm respectively. Draw its projections. Also locate its traces. CO1 (15)

OR

2. A line AB has its end A in HP and 40 mm in front of VP. Its front view is inclined at 50° to XY has a length of 70 mm. The other end B is in VP. Draw its projections and also locate the traces. CO1 (15)

MODULE 2

3. A regular pentagonal pyramid of base 30 mm is resting on HP on one of its corner on HP. If the axis of the pyramid makes an angle 45° to HP and 30° to VP, draw its projections. CO2 (15)

OR

4. A cylinder 40 mm diameter and 50 mm axis is resting on one point of a base circle on VP while its axis makes 45° with VP and FV of the axis 35° with HP. Draw its projections. CO2 (15)

MODULE 3

5. A pentagonal pyramid of base 30 mm and altitude 55 mm rests on its base on the HP with one of its base edges perpendicular to VP. It is cut by a plane inclined at 60° to the base. The cutting plane meets the axis at 15 mm above the base. Draw the front view, sectional top view and true shape of the section. What is the true height of the section? CO3 (15)

OR

6. A right pentagonal pyramid of base side 36 mm and height 64 mm, rests on its base upon the ground with one of its base side parallel to VP. A section plane perpendicular to VP and inclined 30 degree to HP cuts the pyramid, bisecting the axis. Draw the development of the truncated pyramid. CO3 (15)

MODULE 4

7. A hemisphere of diameter 80 mm is resting on the ground with its flat surface facing upwards. A square pyramid having side of base 40 mm and axis 60 mm, is resting on its base centrally on top of the hemisphere. Draw the isometric projection of the combination of solids. CO4 (15)

OR

8. Draw the isometric view of a sphere of radius 30 mm is kept centrally over a square prism of side of base 50 mm and height 30 mm. CO4 (15)
