Reg No.: _____ Name: _____

UES320526CC-1

Jyothi Engineering College(Autonomous)

B. Tech Degree S2 (R) Examination, May 2026(2025 Scheme)

25EST103 - ENGINEERING GRAPHICS AND COMPUTER AIDED DRAWING

Total Mark: 60 **Total Time: 2hrs 30min**

General Instructions

1. Retain Construction lines. Show necessary dimensions. Answer any ONE question from each module. Each question carries 15 marks

(Assume any missing data.)

		CO	MARK
1.	A line AB has its end A 20 mm above HP and 25 mm in front of VP. The other end B is 45 mm above HP and 55 mm in front of VP. The distance between the end projector s is 60 mm. Draw its projections.	CO1	(15)
	OR		
2.	A line AB has its end A 15 mm above HP and 20 mm Infront of VP. The end B is 60 mm above HP and the line is inclined 30° to HP. The distance between the end projectors of the line is 55 mm. Draw the projections of the line and find its inclination with VP.	CO1	(15)
3.	Draw the front view and top view of a square pyramid of base side 34 mm and axis height 40 mm long such that the axis is inclined 40° to VP and 50° to HP. one base edge is on HP and the apex of the pyramid is kept nearer to VP than base.	CO2	(15)
	OR		
4.	A hexagonal pyramid of base edge 20 mm and altitude 80 mm rests on one of its edges of base on HP such that this edge is inclined at 45° to VP and the slant face of the pyramid containing that edge is perpendicular to HP. Draw the projections.	CO2	(15)
5.	A pentagonal pyramid 30 mm edge of base and 60 mm height stands with its base on the ground and an edge of base perpendicular to VP. A section plane perpendicular to HP and inclined 30^0 to VP cuts the pyramid at a shortest distance of 5 mm from its axis and in front of it. Draw its sectional views. Also show the true shape of the section.	CO3	(15)
	OR		
6.	A right regular hexagonal prism of base edge 20 mm and height 50 mm rests on its base with one of its base edge perpendicular to VP. A section plane inclined 45° to HP cuts the axis at its middle. Draw the complete development of truncated prism.	CO3	(15)
7.	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)
	OR		
8.	Draw the isometric projection of a pentagonal prism of side of base 30 mm and height 60 mm, resting up on its base on HP and rectangular face parallel to VP.	CO4	(15)

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