COLLEGE OF ENGINEERING TRIVANDRUM
FIRST SEMESTER B. TECH DEGREE
First Internal Exam – November 2024
GMEST103 Engineering Graphics and Computer Aided Drawing

Max. Marks: **40**   Duration: **2 hrs**

	Module 1 (Answer *Any Two* Questions)	Marks	CO	K Level
1	The front view of line AB is 50°inclined to XY line and is 55 mm long while its top view is 60°inclined to XY line. If end A is 10 mm above HP and 20 mm in front of VP, draw its projections. Find the true length and inclinations of line with HP and VP.	[10]	1	3
2	One end point P of a line PQ,75mm long, is10mm above HP and 20 mm in front of VP. The line is inclined 45° to HP and its plan is inclined 35° to x-y line. Draw the projections of the line PQ and find out true inclination of the line with respect to VP	[10]	1	3
3	A line AB inclined at 45°to VP has its ends 20 mm and 50 mm above HP. The length of its front view is 70 mm and its VT is 10 mm above HP. Draw its projections and find its true length, true inclination with HP and also locate its traces.	[10]	1	3

	Module 2 (Answer *Any Two* Questions)	Marks	CO	K level
4	A pentagonal prism 30 mm base edge and 60 mm height is on HP on one of its base edges so that the axis is inclined at 45°with HP and the base edge on which it rests is inclined at 30°with VP. Draw the projections of the solid.	[10]	2	3
5	A cone of base diameter 50 mm and axis length 60 mm is resting on VP on one of its generators with the front view of the axis inclined at 40°to HP. Draw its projections.	[10]	2	3
6	A square pyramid of base 25 mm. side and axis 60 mm long, has a corner of the base on the ground such that the square base is inclined at 30° to the ground and the two base edges containing that corner are equally inclined to HP. Draw the projections of the pyramid if top view of its axis is inclined at 40° to the XY line.	[10]	2	3