



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.

End - Term Examinations –MAY / JUNE 2026

Date: 20-05-2026

Time: 09:30am – 12:30pm

School: SOE	Program: B. Tech – Mechanical Engineering	
Course Code: MEC1006	Course Name: Engineering Graphics	
Semester: II	Max Marks: 100	Weightage: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	8	12	25	35	20

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer any one Question		20Mx1Q=20M		
1a	A point 30mm above XY line is the front view of two points A&B. The top view of A is 40mm behind & the top view of B is 45mm in front of VP. Draw the projections of the Points & state the Quadrants in which points are situated	8 Marks	L3	CO1
1b	A line CD measuring 75mm is inclined at an angle of 30 ⁰ to HP and 45 ⁰ to VP. The point C is 20mm above HP and 30mm in front of VP. Draw the projections of the straight line	12 Marks	L3	CO2
or				
2a	Draw the Projections of the following points on the same reference line, keeping the projectors 25mm apart. A -in HP and 20mm behind VP B -40mm above HP and 25 mm in front of the VP C -in the VP and 40mm above the HP D -25mm below the HP and 25mm behind VP	8 Marks	L3	CO1

2b	The front view of the line PQ 80mm long measures 50mm and is inclined to XY line at 50° one end of the line P is 20mm above HP and 25mm in front of VP. Draw the front view and top view and top view of line and find the inclination of line with HP and VP.	12 Marks	L3	CO2
Part B Answer any one question 45Mx1Q =45M				
3a	A pentagonal lamina of edges 30mm is resting on HP with one of its edges such that the plane surface makes an angle of 55° with HP. The edge makes an angle of 45° with VP and nearer to the observer, draw the top and front views of the lamina in this position.	25Marks	L3	C03
3b	A hemisphere of 40 mm diameter is supported co-axially on the vertex of a cone of base dia 60mm and axis length 50 mm. The flat circular face of the hemisphere is facing upside. Draw the isometric projection of the combination of solids.	20Marks	L3	C05
or				
4a	A hexagonal lamina of sides 25mm rests on one of its sides on HP. The lamina makes 45° to HP and the side on which it rests makes 30° to VP. Draw its projections	25Marks	L3	C03
4b	A Sphere of diameter 50 mm rests centrally on top of a cube of sides 60 mm. Draw the isometric projection of the combination of solids.	20Marks	L3	C05
Part C Answer any one question 35Mx1Q= 35M				
5	A square pyramid 35 mm sides of base and 60 mm axis length rests on HP on one of its slant triangular face. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45°.	35Marks	L3	CO4
(or)				
6	A regular square pyramid having 30mm base side and 60mm axis length rests on HP on one of its edges of the base. The axis is inclined to HP at 45° and the edge on which it rest is inclined to VP at 30°. Draw the projections.	35Marks	L3	CO4

******* BEST WISHES *******