Name :
Roll No:

MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM

(Government Aided Autonomous Institution)

DEPARTMENT OF MECHANICAL ENGINEERING

FIRST SESSIONAL EXAMINATION MARCH 2026

S2 ECE-A, CSE, DS- A&B, AI&ML

B24ES1TO3A, COMPUTER AIDED ENGINEERING GRAPHICS

Time – $1\frac{1}{2}$ Hours **Max: 40 Marks**

Answer All Questions

1. A line PQ is inclined to HP and VP has a length of 60 mm in the elevation. The ends of the line are located 10 mm and 50 mm above HP. The VT of the line is located 20 mm to the left of the first end projector and the HT of the line is located 10 mm below XY line. Draw the projections and find the true length and true inclinations of the line PQ.

[CO1] 15 Marks

2. A triangular pyramid of base edge 30 mm and height 60 mm is freely suspended in air with a thread attached to one of its base corners. In the plan the axis of the pyramid is making an inclination of 45 Deg. with VP and the apex of the pyramid is pointing the VP. Draw the projections

[CO2] 15 Marks

3. A square pyramid of base edge 40mm and height 60mm is resting on HP on its base with one of its base edge parallel to VP. It is cut by a section plane which is inclined to HP by 30 Deg and perpendicular to the VP. The section pale is bisecting the axis of the pyramid. Draw the projections, show the sectioned surface and draw the true shape of the sectioned surface. **[CO3] 10 Marks**

VISION

Mentoring to Ensure Excellence

MISSION

To facilitate comprehensive and integrated development of students by providing quality education that encourages sustainable practices

To mould disciplined and socially committed engineers capable of assuming professional leadership upholding national integrity