Name :
Roll No:

MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM – 686 666
(Government Aided Autonomous Engineering College)

DEPARTMENT OF MECHANICAL ENGINEERING

FIRST SESSIONAL EXAMINATION OCT 2025
S1 Electrical and Electronics Engineering A & B-Batch

B24ES1T03B COMPUTER AIDED ENGINEERING GRAPHICS

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

Answer All Questions

1. A straight-line AB 65mm long has one end 15mm in front of VP and 40 mm above HP, while the other end is 30mm in front of VP and 20mm above HP. Draw the plan and elevation of the line. Determine the true inclination of the line with HP and VP and locate its traces. **[CO1] 12 Marks**
2. One end of line AB is 10 mm above HP and other end is 70 mm in front of VP. It's FV is 20^0 inclined to xy while it's HT & VT are 10 mm and 5 mm below xy respectively. Draw projections and find TL with its inclinations with HP & VP. **[CO1] 12 Marks**
3. A pentagonal pyramid of base side 30 mm and altitude 60 mm lies on the ground on one of its triangular faces, with the base edge of that face inclined 45^0 to VP. Draw the projections if the vertex of the pyramid is nearer to VP. **[CO2] 16 Marks**

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VISION

Mentoring to Ensure Excellence

MISSION

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

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