Name :
Roll No:

MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM – 686 666
(Government Aided Autonomous Engineering College)
DEPARTMENT OF MECHANICAL ENGINEERING
FIRST SESSIONAL EXAMINATION NOV 2024
S1 Mechanical A&B-Batch
B24ME1TO1 ENGINEERING GRAPHICS

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

Answer All Questions

1. The front and top views of a straight line PQ measures 50 mm and 65 mm, respectively. Point P is on the HP and 20 mm in front of the VP. The front view of the line is inclined at 45^0 to the reference line. Determine the true length of line PQ and its true inclinations with the reference planes. Also locate the traces. [CO1] 10 Marks

2. The end projectors of a line AB are 60 mm apart. A is 20 mm above HP and 30 mm in-front of VP and the end B is 70 mm above the HP and 60 mm behind VP. Find the true length, inclinations with reference planes and traces. [CO1] 10 Marks

3. Draw the projections of a square pyramid of base side 30 mm and altitude 60 mm when it lies on the ground on one of its slant edges with its axis parallel to VP. [CO2] 10 Marks

4. An equilateral triangular prism side of base 30 mm and height 60 mm lies on the HP on a rectangular face. Draw its projections when its axis makes 45 degree with VP. [CO2] 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