6/10/26 AN

Name :
Roll No:

MAR ATHANASIUS COLLEGE OF ENGINEERING
KOTHAMANGALAM

DEPARTMENT OF MECHANICAL ENGINEERING
FIRST SESSIONAL EXAMINATION OCT 2026

S1 MECHANICAL- A & B Batch

B24ME1TO1 ENGINEERING GRAPHICS

Time – 1.5 Hours **Max: 40 Marks**

Answer All Questions

1	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**
2	The top view of a line PQ is 70 mm long and makes an angle of 45 degree with XY. The end P is in VP and 15 mm above HP. The end Q is 30 mm above HP and the whole line is located in first quadrant. Draw its projections and find its true length, length of its elevation, inclinations with reference planes and also locate its traces.	**[CO1] 10 Marks**
3	An electric lamp is hung vertically from the center of the flat roof of a room (5m x 5m and height 6m), at a height of 4m above the floor. Find graphically the distance between the lamp and any one of the floor corner.	**[CO1] 10 Marks**
4	A square pyramid of base 30 mm side and axis 60 mm long, has its axis perpendicular to VP with one of its base edges inclined to HP by 20 degrees. The bottom most corner of the pyramid is 20 mm above HP. Draw the plan and elevation.	**[CO2] 10 Marks**

VISION

Mentoring to Ensure Excellence

MISSION

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

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