

Roll No																			
---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING  
END TERM EXAMINATION - JUN 2023**

**Semester :** Semester II - 2022

**Course Code :** MEC1006

**Course Name :** Sem II - MEC1006 - Engineering Graphics

**Program :** B.Tech - All Programs

**Date :** 9-JUN-2023

**Time :** 1.00PM - 4.00PM

**Max Marks :** 100

**Weightage :** 50%

**Instructions:**

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

**PART A**

**ANSWER ALL THE QUESTIONS**

**(20M)**

1. A point M is on HP and 30 mm in front of VP. Another point N is 20 mm below HP and 20 mm in front of VP. The distance between their projectors measured parallel to XY line is 50 mm. Find the distance between front views of the point M and N. (8M)  
(CO2) [Knowledge]
2. Line AB is 75 mm long and it is 30° & 40° Inclined to HP & VP respectively. End A is 12mm above HP and 10 mm in front of VP. Draw projections. Line is in 1st quadrant.. (12M)  
(CO2) [Knowledge]

**PART B**

**ANSWER ALL THE QUESTIONS**

**(60M)**

3. A Hexagonal prism of 25mm sides of base and 50 mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the Projections of the prism when the axis of the prism inclined to 40° to HP and appears to be inclined to VP at 45°. (35M)  
(CO3) [Comprehension]
4. A square lamina ABCD of 40mm side rests on corner C such that the diagonal AC appears to be inclined at 45° to VP. The two sides BC and CD containing the corner C make equal inclination with HP. The surface of the lamina makes 30° with HP. Draw its top and front views. (25M)  
(CO2) [Comprehension]

**PART C**

**ANSWER THE FOLLOWING QUESTION**

**(20M)**

5. A rectangular pyramid of base 40mmx20mm and height 50mm is placed centrally on a rectangular slab sides 80mmx60mm and thickness 30mm. Draw the isometric projection of the combination. (20M)  
(CO4) [Application]