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**PRESIDENCY UNIVERSITY  
BENGALURU**

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

**Semester :** Semester II - B.Tech MEC - 2022

**Course Code :** MEC1006

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

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

**Date :** 12-JUN-2023

**Time :** 1.00PM - 4.00PM

**Max Marks :** 100

**Weightage :** 50%

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**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.
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**PART A**

**ANSWER ALL THE QUESTIONS**

**(20M)**

1. A line PQ 75mm long has its end P in both HP and VP. It is inclined at an angle of  $35^\circ$  to HP  $45^\circ$  to VP. Draw projections of the line. (12M)  
(CO2) [Knowledge]
2. A point is 35 mm below HP, 20 mm behind VP and 25 mm from RPP. Draw its projections. (8M)  
(CO2) [Knowledge]

**PART B**

**ANSWER ALL THE QUESTIONS**

**(60M)**

3. A square Prism 35 mm sides of base and 65mm axis length rests on HP on one of its edges of the base which is inclined to VP at  $30^\circ$ . Draw the Projections when the axis is inclined to HP at  $45^\circ$ . (35M)  
(CO3) [Comprehension]
4. A pentagonal lamina of edges 30mm is resting on HP with one of its sides, such that the surface makes an angle of  $60^\circ$  with HP. The edge on which it rests is inclined at  $45^\circ$  to VP. Draw its projections. (25M)  
(CO2) [Comprehension]

## PART C

### ANSWER THE FOLLOWING QUESTION

(20M)

5. The frustum of a square pyramid of base sides 50mm, top face of sides 30mm and height 60mm rest on the center of the top of a square block of side 70mm and height 20mm. The base edges of the pyramid are parallel to the top edges of the square block. Draw the isometric projection of the combination of the solids.

(20M)

(CO4) [Application]