Roll No											

PRESIDENCY UNIVERSITY
BENGALURU

SET A

SCHOOL OF ENGINEERING
END TERM EXAMINATION - JAN 2024

Semester : Semester I - 2023
Course Code : MEC1006
Course Name : Engineering Graphics
Program : B.Tech.

Date : 19-JAN-2024
Time : 9:30AM - 12:30 PM
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 **(8 + 12 = 20)**

1. Draw the projections of the following points on the same reference XY Line and state the quadrants in which they lie

   E – 35 mm infront of VP & on HP

   F – 30 mm below HP & 25 mm behind VP

   G- 15 mm above HP & 25 mm behind VP

   H- 30 mm below HP and 25 mm infront of VP

   (CO2) [Knowledge]

2. A Line AB 75 mm long has its end A 20 mm above the HP and 30 mm infront of VP, it is inclined at 30° to HP and 45° to VP. Draw the Projections of the line and find apparent lengths and apparent angles.

   (CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS **(25 + 20 = 45)**

3. A pentagonal lamina of edges 30 mm is resting on HP with one of its sides, such that the surface makes an angle of 50° to HP. The edge on which it rests is inclined at 40° to VP. Draw its projections

   (CO2) [Comprehension]

4. A rectangular slab base **(120 x 80)mm** and thickness 30mm has a full depth of co axial square hole 40 mm such that one of the sides of the square is parallel to one of the sides of the rectangle. Draw the isometric projections.

(CO4) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS **(1 X 35M = 35M)**

5. Square prism, base 35mm side and height 65mm, has its axis inclined to HP 50° and has an edge of its base on the HP and inclined at 30° to VP. Draw its projections**.**

(CO3) [Application]