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**Presidency University**

**Bengaluru**

**SCHOOL OF ENGINEERING**

**Make-Up Examinations, July 2024**

**Course Code**: MEC1003

**Course Name**: ENGINEERING GRAPHICS

**Program**: B.TECH

**Date**:19-07-2024

**Time**: 1.30 PM to 4.30 PM

**Max Marks**: 100

**Weightage**: 50%

**Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Question paper consists of 3 parts*
3. *Do not write any matter on the question paper other than roll number.*

**Part A [Memory Recall Questions]**

**Answer all the Questions. (20M)**

1. Draw the projections of the following points on the same XY line, keeping convenient distance between each projector. Name the quadrants in which they lie. P - 20mm above HP and 35mm infront of VP; Q - 30mm above HP and 40mm behind VP R - 40mm above HP and on VP; S - 35mm below HP and 30mm infront of VP [8M]
2. A line AB 80 mm long is inclined to HP at 45° and inclined to VP at 30°. Draw front and top views of line and determine their lengths. Also determine the perpendicular distance of end B from both HP and VP.

(C.O.No.1-5) [Bloom’s level]

**Part B [Thought Provoking Questions]**

**Answer all the Questions. (60M)**

1. A square lamina of 40mm side rests on one of its sides on HP. The lamina makes 30º to HP and the side opposite to the side on which it rests makes 45º to VP. Draw its projections.[25M]
2. A regular square pyramid having 35mm base side and 65mm axis length rests on HP on one of its edges of the base which is inclined to VP at 30° and the axis is inclined to HP at 45°. Draw the projections. [35M]

(C.O.No.1-5) [Bloom’s level]

**Part C [Problem Solving Questions]**

**Answer all the Questions. (20M)**

1. A square prism base side 40mm, height 50mm is placed centrally on a rectangular slab sides 100mm×60mm and thickness 20mm, draw the isometric projection of the combination of solids.[20M]

(C.O.No. 1-5) [Bloom’s level]