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**PRESIDENCY
UNIVERSITY
BENGALURU**

School of Engineering

Mid - Term Examinations - November 2024

Semester: I

Date: 07-11-2024

Course Code: MEC1006

Time: 11:45am – 01:15pm

Course Name: Engineering Graphics

Max Marks: 50

Program: B.TEC

Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL Questions. Each question carries 25 marks.

2QX25M=50M

1. 1a. A Point P is 15 mm above HP & 25 mm in front of VP. Another point Q is 25 mm behind VP and 40 mm below HP. Draw their projections when the distance between their projectors parallel to XY line is ZERO mm. add the right side view only to point P. 10 Marks applying CO2
- 1b. A Line has its end A 10 mm above HP and 15 mm in front of VP. The end B is 55 mm above HP and line is inclined at 30° to HP. The distance between the end projectors is 45 mm. Draw the projections of the line. Determine the true length of the line and its inclinations with VP. 15 Marks applying CO2
- OR
2. 2a. A Point 30mm above XY line is the front view of two points A & B. The top view of A is 40 mm behind VP & The top view of B is 55 mm in front of VP. Draw The projections of the points & state the quadrants in which the points are situated 10 Marks applying CO2
- 2b. The top view of a 75 mm long line AB measures 65 mm. Its one end A is in the HP and 15 mm in front of the VP. The end B is 55 mm in front of the VP. Draw the projections of AB and determine its inclinations with the HP and VP. 15 Marks applying CO2

3. 3a. A point P is on HP and 30 mm in front of VP. Another point Q is on VP and 40 mm above HP. The distance between their projections Parallel to XY line is 45 mm. Find the distance between their front and top views of the points P and Q. 10 Marks applying CO2

3b. FV of line AB is 40° inclined to XY and measures 55 mm long while its TV is 60° inclined to XY line. If end A is 10 mm above HP and 15 mm in front of VP, draw its projections, find TL, inclinations of line with HP & VP. 15 Marks applying CO2

OR

4. 4a. A point S is in the first quadrant and equidistant of 40mm from all the three principal planes. Draw the projections of the point. Draw all the three views of the point. 10 Marks applying CO2

4b. The top view ab of a straight line AB is 65 mm long and makes an angle of 35° with the XY Line. The end A is in VP and 30 mm above HP. The end B is 65mm above HP. Draw the projections of the line AB and determine i) Length of the front view ii) True Length and True Inclinations with the reference planes. 15 Marks applying CO2