

DEPARTMENT OF MECHANICAL ENGINEERING
UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, CSJM UNIVERSITY, KANPUR
Engineering Drawing (TCA-S101)

Semester: 2023-24 (Even Semester) Year (2K23)

Year: 1th

Mid Semester Examination (A-3)

Time: 1.5 h

Maximum marks: 30

1. The projectors drawn from the H.T. and the V.T. of a straight line AB are 80 mm apart while those drawn from its ends are 50 mm apart. The H.T. is 35 mm in front of the V.P. the V.T. is 55 mm above the H.P. and the end A is 10 mm above the H.P. Draw the projections of AB and determine its length and inclinations with the reference planes.
2. The front view of a line AB measures 70 mm and makes an angle of 45° with xy. A is in the H.P. and the V.T. and the end A are 40 mm apart. The point A is 30 mm below the H.P. and 20 mm behind the V.P. The V.T. is 10 mm above the H.P. Draw the projections of the line and determine its H.T. and inclinations with the H.P. and the V.P.
3. A line AB, 80 mm long makes an angle of 30° with the V.P. and lies in a plane perpendicular to both the H.P. and the V.P. Its end A is in the H.P. and the end B is in the V.P. Draw its projections and show its traces.
4. A line AB, 65 mm long, has its end A in the H.P. and 15 mm in front of the V.P. The end B is in the third quadrant. The line is inclined at 30° to the H.P. and at 60° to the V.P. Draw its projections.
5. The top view of line AB measures 60 mm and inclined to reference line at 60° . The end point A is 15 mm above the H.P. and 30 mm in front of the V.P. Draw the projections of the line when it is inclined at 45° to the H.P. and is situated in the first quadrant. Find true length and inclination of the line with the V.P. and traces.

[6 x 5]

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