

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

Semester: 2023-24 (Even Semester)

Year: 1st Year (2K24)

Mid Semester Examination (A-2)

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. A line AB measures 100 mm. The projectors through its 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 PQ, 100 mm long, is inclined at 45° to the H.P. and at 30° to the V.P. Its end P is in the second quadrant and Q is in the fourth quadrant. A point R on PQ, 40 mm from P is in the both the planes. Draw the projections of PQ.
4. A line AB, 75 mm long, is inclined at 45° to the H.P. and 30° to the V.P. Its end B is in the H.P. and 40 mm in front of the V.P. Draw its projections and determine its traces.
5. A line AB, inclined at 40° to the V.P., has its ends 50 mm and 20 mm above the H.P. The length of its front view is 65 mm and its V.T. is 10 mm above the H.P. Determine the true length of AB, its inclination with the H.P. Determine the true length of AB, its inclination with the H.P. and its H.T.

[6 x 5]

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