PROJECTION OF LINES

Academic Session: September 2024-February 2024

1. Draw the projections of a line AB 70 mm.in length as per the details given below:
   i) Line is parallel to both V.P and H.P. It is 25 mm in front of V.P and 60 mm above H.P.
   ii) Line has its end A 20 mm above H.P and it is perpendicular to H.P and 40 mm in front of V.P.
   iii) Line has its end A 20 mm in front of V.P and it is perpendicular to V.P and 40 mm above H.P.

2. A line PQ 80 mm. long has end P 20mm above H.P and 40 mm in front of V.P. The line is inclined to H.P at 30^0 and parallel to V.P. Draw the projections of the line.

3. The top view of a line measures 60mm. the line is parallel to V.P and inclined at 45^0 to H.P. One end of the line is 25mm in front of V.P and lies on H.P. Draw its projections and determine its true length.

4. A 70 mm. long line PQ has its end P 20mm above H.P and 30 mm in front of V.P. The line is inclined at 45^0 to H.P and 30^0 to V.P. Draw its projections.

5. The front and top views of a straight-line AB measures 50mm and 65mm respectively. The point P is on the H.P and 20 mm. in front of V.P. The front view of the line is inclined at 45 degrees to the reference line. Determine the true length AB and find its true inclinations with reference planes.