Indian Institute of Technology Hyderabad

Assignment-3

Course: Engineering Drawing **Marks: 50**

Duration: 5 days

Instructions:

1.The Drawing should be in orthographic sheet.

2.All the drawings should be neat and clear with proper dimensions.

3. Copying is strictly not allowed and will lead to negative marks.

4.Ensure that the scanned copy of answer script should be clearly visible before submitting it.

5.File name should be in the format of "ROLL NO_Assign3"

Projection of Lines

1. A line AB inclined at 40º to H.P. has its front view 60 mm long and inclined at 60º to the reference line. One end is 20 mm away from both the reference planes in first angle. Locate the position of end B. Find true length and true inclination of the line with V.P. (10 M)

2. An 80 mm long line AB is inclined at 30º to the V.P. and is parallel to the H.P. The end A of the line is 20 mm above the H.P. and 40 mm in front of the V.P. Draw the projections of the line. (10 M)

3. An 80 mm long line PQ has its end P 10 mm above the H.P. and 25 mm in front of the V.P. The line is inclined at 30º to the H.P. and 60º to the V.P. Draw its projections. (10 M)

4. The top view of a 80 mm long line AB measures 65 mm, while the length of its front view is 55 mm. Its one end A is in the H.P. and 12 mm in front of the V.P. Draw the projections of AB and determine its inclination with the H.P. and V.P. (10M)

5. A straight line PQ has its end P 20 mm above the H.P. and 30 mm in front of the V.P. and the end Q is 80 mm above the H.P. and 70 mm in front of the V.P. If the end projectors are 60 mm apart, draw the projections of the line. Determine its true length and true inclinations with the reference planes. (10 M)

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