**CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

**Lab Sheet-4 Projections of Points, Lines and Traces Friday Afternoon**

**Max Marks: 25 × 4 = 100 Date: 06.09.2019**

1. Mark the projections of the following points on a common reference line, keeping the projectors 25 mm apart.
2. A, 30 mm above HP and 40 mm in front of VP
3. B, 25 mm above HP and 40 mm behind VP
4. C, 35 mm below HP and 45 mm behind VP
5. D, 30 mm below HP and 45 mm in front of VP
6. A line AB 40 mm long is parallel to VP and inclined at an angle 35° to HP. The lower end A is 15 mm above HP and 20 mm in front of VP. Draw the projections of the line
7. A straight line AB has its end point A 10 mm above the HP and 20 mm in front of the VP. The front view of the line is 50 mm long and is inclined at 45° to the XY line. Draw the projections of straight line AB if its top view is inclined at 30° to the XY line. Find the true length and true inclinations of AB with the HP and the VP.
8. A line AB 40 mm long is parallel to VP and inclined at 35° to HP. The end A is 15 mm above HP and 20 mm in front