**CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

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

**Max Marks: 25 × 4 = 100 Date: 03.09.2019**

1. A point A is 20 mm below HP and lies in 3rd quadrant. Its shortest distance from VP is 40 mm. Draw its projection.
2. The mid-point of a straight line AB is 60 mm above HP and 50 mm in front of VP. The line measures 80 mm long and inclined at an angle of 300to HP and 450 to VP. Draw its projection.
3. A line MN has ends M 20 mm below and 300 inclined to HP. If the line is 30 mm behind and parallel to VP, draw its projection and find its true length. The distance between the end projections is 60 mm and the line is in the 3rd quadrant.
4. The end C of a line CD is 20 mm in front of VP while the other end D is 32 mm above HP. The line is parallel to HP and 45° inclined to VP. Draw its projections and mark its vertical trace, if the length of the line is 50 mm.