**DONE CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

**Lab Sheet-5 Projections of Planes Thursday Morning**

**Full Marks: 25 × 4 = 100 Date: 12.09.2019**

1. A 30°– 60° set square of longest side 100 mm long is in VP and its surface 45° inclined to VP. One end of longest side is 10 mm and other end is 35 mm above HP. Draw its projections.
2. ABCDE, a rectangular pentagon of 40 mm side, has corner A on the HP. The pentagon is inclined to the HP such that length of edges AB and AE in TV are each 35 mm. The side CD is in the VP. Draw the projections of pentagon and find its inclination with HP.
3. A square of 60 mm side has one of its diagonal parallel to the VP. The lamina is inclined to the ground such that diagonal parallel to VP measures 40 mm in TV. Draw the three views of lamina and also find the inclination of lamina with respect to the ground (HP).
4. A circle of diameter 45 mm has a point on the circumference on the VP. The circle makes 40° with the VP. Draw its projection if the diameter through the point on the VP makes 30° with the HP.