**CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

**Lab Sheet-5 Projections of Planes Monday Afternoon**

**Full Marks: 25 × 4 = 100 Date: 09.09.2019**

1. A 30° – 60° set square of longest side 100 mm long, is in VP and 30° inclined to HP while it’s surface is 45° inclined to VP. Draw its projections.
2. A regular pentagon of 30 mm side has one of its corner in VP while the surface makes an inclination of 30° with VP. The edge of the plane opposite to the corner is parallel to VP and is inclined by 45° to HP.
3. A rectangle of dimension 70 mm x 40 mm rests on its shorter side in the VP and surface is inclined by 45° with VP. Larger side is inclined by 30° with HP. Draw the projections.
4. A circular plate of diameter 60mm appears as an ellipse in the front view with major axis as 60 mm and minor axis as 40 mm length respectively. Draw the projections if the major axis is parallel to both HP and VP.