**CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

**Lab Sheet-6 Projections of Solids Friday Afternoon**

**Full Marks: 100 Date: 27.09.2019**

1. A pentagonal pyramid of base side 30 mm and axis 60 mm has an edge of base parallel to HP. Its axis is parallel to VP and inclined at 45° to the HP. Draw its projections when the apex lies in the HP. [20 marks]
2. A pentagonal prism of base side 25 mm and axis 60 mm has its axis inclined at 60° to the HP and 30° to the VP. The farthest shorter edge is parallel to and 90 mm above the HP while the nearest corner is 10 mm in front of the VP. Draw its projections. [40 marks]
3. Draw the projections of a cone, base 45 mm diameter and axis 50 mm long, when it is resting on the ground on a point on its base circle with the axis making an angle 30° with the HP and 45° with the VP. [40 marks]