**CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

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

**Full Marks: 100 Date: 27.09.2019**

1. A square pyramid of base side 40 mm and axis 60 mm is resting on its base on the HP. Draw its projections when a side of the base is inclined at 30° to the VP. [20 marks]
2. A cylinder of base diameter 50 mm and axis 65 mm rests on a point of its base circle on the HP. Draw its projections when the axis inclined at 30° to the HP and top view of the axis is perpendicular to the VP. [40 marks]
3. A hexagonal prism of base 25 mm and axis 60 mm has its axis inclined at 30° to HP and 45° to VP. The nearest shorter edge is parallel to HP and 20 mm above the HP. Draw its projection. [40 marks]