**CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

**Lab Sheet-7 Section of Solids Wednesday Morning**

**Date: 02.10.2019**

1. A pentagonal prism of base side 20 mm and axis of 50 mm long rests with one of the edges of the base on HP. Its axis is inclined at 30˚ to HP and parallel to VP. It is cut by a horizontal plane passing through the highest corner of the base. Draw the sectional top view.
2. A cone with 40 mm diameter base and 50 mm length of axis, rests with its base on HP. It is cut by a plane inclined at 75 degrees to HP and perpendicular to VP and passing through the vertex of the cone. Draw the front view, sectional top view and the true shape.
3. A hexagonal pyramid side of base 25 mm and 50 mm long axis rests with base on HP and an edge of its base is perpendicular to VP. A section perpendicular to VP, inclined at 30 degrees to HP and passing through a point 20 mm below apex cuts the solid. Draw the sectional side view and sectional top view.