

### **Sheet No. 10 – Projections of Solids**

1. Draw the projections of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the H.P. and an edge of the base parallel to the V.P. Also draw its side view.
2. Draw the projections of a hexagonal pyramid, base 30 mm side and axis 60 mm long, having its base on the H.P. and one of the edges of the base inclined at  $45^\circ$  to the V.P.
3. A regular tetrahedron of 5 cm long edges is resting on the H.P. on one of its faces, with an edge of that face parallel to the V.P. Draw its projections and measure the distance of its apex from the ground.
4. A square pyramid, base 40 mm side and axis 65 mm long, has its base in the V.P. One edge of the base is inclined at  $30^\circ$  to the H.P. and a corner contained by that edge is on the H.P. Draw its projections.
5. A triangular prism, base 40 mm side and height 65 mm is resting on the H.P. on one of its rectangular faces with the axis parallel to the V.P. Draw its projections.
6. Draw the projections of a pentagonal prism, base 25 mm side and axis 50 mm long, resting on one of its rectangular faces on the H.P., with the axis inclined at  $45^\circ$  to the V.P.
7. Draw the projections of a cylinder 75 mm diameter and 100 mm long, lying on the ground with its axis inclined at  $30^\circ$  to the V.P. and parallel to the ground.
8. A hexagonal pyramid, base 25 mm side and axis 50 mm long, has an edge of its base on the ground. Its axis is inclined at  $30^\circ$  to the ground and parallel to the V.P. Draw its projections.
9. Draw the projections of a cone, base 75 mm diameter and axis 100 mm long, lying on the H.P. on one of its generators with the axis parallel to the V.P.