

ASSIGNMENT - 5 - PROJECTION OF SOLID SECTION OF SOLID

1. A frustum of cone, having base diameter 60 mm, top base diameter 25 mm and axis 45 mm, is resting on one of its generators on HP. The axes of the frustum make an angle of 30° with VP. Draw the projections of the solid.
2. A circular cone is of 60 mm base diameter and 80 mm long generator. It is resting on the HP with one of the points of its base on it and the apex 55 mm above it. Draw the projection of the cone when the plan of the axis is inclined at 45° to the VP. Measure the inclination of the cone with the HP.
3. A cylinder glass jar, diameter of the base 60 mm and height 75 mm, is completely filled with water. It is then on the rim of its base in such a manner so that the water is drained out. Also draw the projections of jar when its axis is inclined to 60° with HP.
4. A hexagonal pyramid is resting on one of its triangular face with axis remaining parallel to VP. It is cut A.V.P. making 30° with VP passing through a point on the axis 33 mm from the apex. Draw plan, sectional elevation and the true shape of section. Take side of base 30 mm and height 75 mm.

