CLASS – XI ENGINEERING DRAWING ASSIGNMENT – III

A

1. A triangular pyramid of 50 mm base edges & 70 mm height standing on the HP with one of its base edges on the rear parallel to the VP is cut parallel to its base 35 mm above it. Project the top view & front view of the frustum.
2. The frustum of a sphere of 50 mm diameter & 40 mm vertical axis is resting on HP with its sectioned face horizontal. Project its front view & top view.
3. The frustum of a cone base diameter 50 mm, sectioned face diameter 25 mm & vertical axis 30 mm is resting on its base on HP. Project its top view & front view.
4. The frustum of an inverted hexagonal pyramid of 30 mm top face edges, 35 mm vertical axis & 15 mm bottom face edges rests on HP with one edge on the back parallel to VP. Project its top view & front view.
5. The frustum of a square pyramid of 40 mm base edges & 20 mm cut face edges is resting on HP on a base edge with its 40 mm along axis horizontal & at right angles to VP. The cut face is in front. Project its front view & top view.
6. The frustum of a cone of 40 mm base diameter & 20 mm cut face diameter, rests on HP with its 40 mm long axis parallel. to HP & at right angles to VP. The cut face is in front. Project its front view & top view.
7. The frustum of a cone of 45 mm base diameter & 25 mm cut face diameter & 50 mm axis, rests on HP so that its axis is parallel to VP or inclined to HP at 30^0 towards right. Project its front view & top view when the cut face is on top.
8. The frustum of a cone of 40 mm base diameter & 20 mm cut face diameter rests on HP with its axis 50 mm long parallel to HP & inclined to VP at 30^0 towards right. Project its top view & front view when the cut face is in front.

B.

1. Project the front view & sectional top view of a vertical square prism of 45 mm base edges & 60 mm high, resting on HP with two rectangular faces parallel to VP sectioned horizontally 20 mm below its top face.
2. Project the front view & sectional top view of a cylinder of 50 mm diam & 60 mm height resting on HP sectioned horizontally 30 mm above its base.
3. A vertical hexagonal pyramid of 25 mm base edges & 60 mm height resting on HP with two opposite base edges at right angles to VP is sectioned by a horizontal plane, 30 mm above its base. Project its front view & sectional top view.
4. Project the front view & sectioned top view of a vertical cone of 50 mm base diameter & 60 mm axis, resting on HP & sectioned by a horizontal plane early at its mid height.]