

Assignment –3. B

GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY NELLORE

ENGINEERING DRAWING – UNIT 3 (Projection of Solids)

1CSE-C & CS

Axis inclined to both the reference planes

1	A square prism, base 40 mm side and height 65 mm has its axis inclined at 45° to the H.P and the base on which it rests is inclined at 30° to the V.P. Draw its projections
2	Draw the projections of a cone of a base 50 mm diameter and axis 60 mm long, when it is resting on the ground on a point on its base with (a) the axis making an angle of 30° with the H.P and 45° with the V.P. (b) the axis making an angle of 30° with the H.P and its top view making 45° with the V.P
3	A pentagonal pyramid base 25 mm side and axis 50 mm long has one of its triangular face in the V.P and the edge of the base contained by that face makes an angle of 30° with the H.P. Draw its projections.
4	Draw the projections of the cube of 25 mm long edges resting on the H.P on one of its corners with a solid diagonal perpendicular to the V.P.
5	<p>A pentagonal prism is resting on one of the corners of its base on the H.P. The longer edge containing that corner is inclined at 45° to the H.P. The axis of the prism makes an angle of 30° to the V.P. Draw the projection of the solid.</p> <p>Also draw the projections of the solid when the plan of axis is inclined 30° to XY. Take side of the base 45 mm and height 70 mm.</p>
6	A square pyramid of 50 mm side of base and 50 mm long axis is resting on one of its triangular faces on H.P having a slant edge containing that face parallel to the V.P. Draw the projections of the pyramid.

Assignment Set by Mr. E. Bhaskar M. TECH