Assignment –3A

GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY NELLORE

ENGINEERING DRAWING – UNIT 3 (Projection of Solids)

1CSE–C & CS

Axis perpendicular to one of the principal planes

1	Draw the projections of a cylinder of base 30 diameter and axis 50 long, when it is resting on H.P on one of its bases
2	Draw the projections of a cone of base 30 diameter and axis 50 long, when it is resting on H.P on its base
3	Draw the projections of a cube of 40 side is resting with a face on H.P such that, (1) the vertical faces are equally inclined to V.P. (2) one of its vertical faces is inclined at 30^0 to V.P
4	Draw the projections of a triangular prism of base 30 side and axis 50 long is resting on H.P on one of its bases, (i) with a face perpendicular to V.P. (ii) one of its faces is inclined at 45^0 with V.P.
5	A pentagonal pyramid of base 25 side and axis 60 long, is resting on an edge of the base on H.P. Draw the projections of the pyramid, when its axis is perpendicular to V.P the base is 15 from V. P

Axis inclined to one of the principal planes and parallel to the other

6	Draw the projections of a hexagonal prism of base 25 side and axis 60 long when it is resting one of its corners of the base on H.P. The axis of the solid is inclined at 45^0 to H.P
7	Draw the projections of a pentagonal prism of base 25 side and axis 50 long when it is resting one of its rectangular faces on H.P. The axis of the solid is inclined at 45^0 to V.P
8	A tetrahedron of 40 long edge is resting on H.P on one of its faces with an edge of that face parallel to V.P. Draw the projections of the solid

9	Draw the projections of a cylinder of 40 diameter and axis 60 long when it is lying on H.P with its axis inclined at 45^0 to H.P and parallel to V.P. Follow the change of position method.
10	Draw the projections of a hexagonal pyramid with side of base 30 and axis 70 long which is resting with slant face on H.P such that the axis is parallel to V.P. Follow the change of position method.
11	A hexagonal pyramid of side of base 25 and axis 60 long is resting on an edge of the of the base on H.P. Draw the projections of the solid when the axis makes an angle of 45^0 with V.P and base of the solid is nearer to V.P. Follow the change of position method.