

ASSIGNMENT - 4 - PROJECTION OF PLANE

- 1. An elliptical plane with major axis 70 mm and minor axis 50 mm is inclined to HP, such that the top plan of the plane is a circle. Draw the projections of the plane when the major axis is inclined at 30° to the VP. Find the inclination of the plane with the HP. Use the concentric circle method to draw the top plan of the plane in the initial stage.
- 2. ABCD is a rhombus of diagonal AC = 100 mm and BD = 70 mm. its corner A is in the HP and the plane is inclined to the HP such that the plan appears to be a square and the plan of the diagonal AC makes an angle of 20° to the VP. Draw the projections of the plane and find its inclination with the HP.
- 3. ABCDE is a regular pentagonal plate of 40 mm sides, has its corner A on the HP the plate is inclined at 30° to the HP such that the side CD is parallel to both the reference planes. Draw the projections of plane.
- 4. A regular hexagonal plane of 30 mm sides has one of its corner on the HP. The surface of the plane is inclined at 30° to the HP. Draw the projection of the plane when diagonal passing through the corner on HP makes an angle of 45° to the VP.

