CW 5 Projections of Plane

1. A regular pentagonal plate, of 50mm sides, has one of its corners on H.P. The plane of pentagon is inclined at 30° to the H.P. The side of the pentagon, which is opposite to the corner, which is on H.P., is inclined at 45° to the V.P. Draw the projections of the plate.

2. ABCDE is a regular pentagonal plate, of 40 mm sides, has its corner A on the H.P. such that the plane length of the edges AB and AE is each 35 mm. The side CD is parallel to both the reference plane. Draw the projections of the plate and find its inclination with the H.P.

3. A regular hexagonal plate, 50 mm side, is resting on one of its corners in H.P. The diagonal through that corner is inclined at 40° to H.P. and (a) the plan of that diagonal inclined to V.P. by 30° and (b) diagonal is inclined at 30° to V.P.

4. Draw the projections of a circle, a 60 mm diameter, resting on the H.P. on a point A of the circumference. Plane is inclined to the H.P. such that the plan of it is an ellipse of minor axis 40 mm. the plan of the diameter, through the point A, is making an angle of 45° with the V.P. Measure the angle of the plane with the H.P.

5. A plate having shape of an isosceles triangle has base 50 mm long and altitude 70 mm. It is so place that in the front view it is seen as an equilateral triangle of 50 mm sides and one side is inclined at 45° to H.P. Draw its projection.