

- Q.4** The end A of the line AB 105mm long is 20mm above HP and 35mm in front of VP. The elevation of the line is inclined at 45° . The VT is 35mm below HP. Draw the projection of line and find the inclination with the reference planes. Also locate the HT. (10)

OR

- Q.4** A line AB has its end point A 10mm above the HP. Distance of projectors between its ends A and B is 70mm. Distance of projectors between its traces is 110mm. The elevation of the line is inclined at 45° to the XY line and its plan is inclined at 30° to the XY line. Draw the projections of the line; find its true length, inclination with HP and inclination with VP. Also locate its traces. (10)

- Q.5** A rhombus ABCD has its diagonal AC = 80mm and BD = 50mm. The side AD of the plane is in HP and the plane makes an angle of 30° with the HP. Obtain the projections of the plane when side CD is in VP. Find inclination of the plane with VP. (10)

OR

- Q.5** Draw the projections of a circle of 60mm diameter resting in the HP on a point A on the circumference if the plate is inclined at 30° to HP and the diameter AB makes 35° with the VP. Also find the inclination of the plate with VP. (10)

- Q.6** A pentagonal pyramid of base 20mm and height 50mm has its triangular face in the VP with a shorter side inclined to the HP at 30° . Draw its projections. (10)

OR

- Q.6** A cone of base diameter 40mm and axis length 50mm is kept on the HP on its base. It is cut by an Auxiliary inclined plane inclined at 45° to the HP and passes through the point on the axis 30mm above the base. Draw front view, sectional T.V., sectional side view and true shape of the section. (10)

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