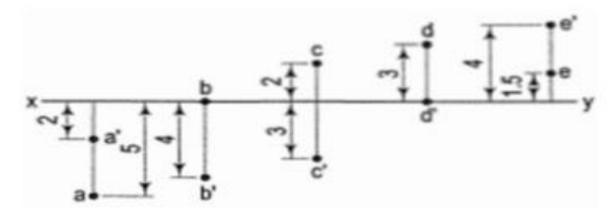
UNIT-II: PROJECTIONS OF POINTS

- 1. Draw the Projections of the following points on the same ground line, keeping the Projectors 25 mm apart.
- i. A is in the H.P. and 20 mm behind the V.P.
- ii. B is 40 mm above the H.P. and 25 mm in front of the V.P.
- iii. C is in the V.P. and 40 mm above the H.P.
- iv. D is 25 mm below the H.P. and 25 mm behind the V.P.
- v. E is 15 mm above the H.P. and 50 mm behind the V.P.
- vi. F is 40 mm below the H.P. and 25 mm in front of the V.P.
- vii. G is in both the H.P. and the V.P
- 2. Draw the orthographic projections of the following points.
- i. Point P is 30 mm. above H.Pand 40 mm. infront of VP.
- ii. Point Q is 25 mm. Above H.P and 35mm.behind VP.
- iii. Point R is 32 mm. below H.P and 45mm behind VP.
- iv. Point S is 35 mm. below H.P and 42mm in front to VP.
- v. Point T is in H.P and 30 mm behind VP.
- vi. Point U is in V.P and 40 mm. below HP.
- vii. Point V is in V.P and 35 mm. above H.P.
- viii. Point W is in H.P and 48 mm. in front of VP.
- 3. Draw the projections of the following points on the same XY line, keeping convenient Distance between each projectors. Name the quadrants in which they lie.
- i. Point A is 30 mm above HP and 35 mm in front of VP.
- ii. Point B is 35 mm above HP and 40 mm behind VP.
- iii. Point C is 40 mm above HP and on VP.
- iv. Point D is 35 mm below HP and 30 mm in front of VP.

- 4. Draw the projections of the following points on the same XY line, keeping convenient Distance between each projector. Name the Quadrants in which they lie.
- i. Point E is 30 mm below HP and 25 mm behind VP.
- ii. Point F is 35 mm below HP and 30 mm in front of VP.
- iii. Point G is on HP and 30 mm in front of VP.
- iv. Point H is on HP and 35 mm behind VP.
- 5. A point P is 50 mm from both the reference planes. Draw its projections in all possible positions.
- 6. State the quadrants in which the following points are situated:
- (a) A point P; its top view is 40 mm above xy; the front view, 20 mm below the top view.
- (b) A point Q, its projections coincide with each other 40 mm below xy.
- 7. A point P is 15 mm above the H.P. and 20 mm in front of the V.P. Another Point Q is 25 mm behind the V.P. and 40 mm below the H.P. Draw projections of P and Q keeping the distance between their projectors equal to 90 mm. Draw straight lines joining (i) their top views and (ii) their front views.
- 8. Projections of various points are given in State the position of each point with respect to the planes of projection, giving the distances in centimetres.



9. Two points A and B are in the H.P. The point A is 30 mm in front of the V.P., While B is behind the V.P. The distance between their projectors is 75 mm and the line joining their top views makes an angle of 45° with xy. Find the Distance of the point B from the V.P.