

( 2 )

Construct a scale to measure upto 7 km, and to read in kilometres and hectometres. Show a length of 4.4 km on it. 15

3. A line  $AB$  55 mm long one of its end 20 mm above HP and 15 mm in front of VP. The line is inclined at  $35^\circ$  to HP and  $45^\circ$  to the VP. Draw the projection and find out the length of the line  $AB$  in front view and top view. 15

4. Construct an ellipse by eccentricity method which distance of the focus from the directrix is 60 mm and the eccentricity is  $\frac{2}{3}$ . 15

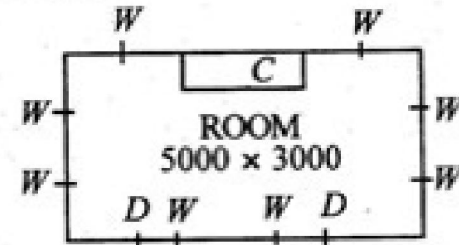
5. A circular plane of 50 mm diameter is resting on HP on its circumference such that its plane is perpendicular to HP and  $30^\circ$  inclination to VP. The centre being 30 mm in front of V.P. 15

6. A right circular cone diameter of base 40 mm and height 65 mm rests on its flat end on H.P. The front view is cut by a plane passing through the mid-height at an angle of  $45^\circ$  to H.P. Draw the development of the truncated cone. 15

( 3 )

7. Draw the isometric projection of a hexagonal prism axis vertical with side of base 40 mm and axis 80 mm long. The prism is resting on its base on HP and with an edge of the base parallel to VP. 15

8. Draw the plan and front elevation from the given line plan of a small recreation club adopting the following specifications : 25



- (i) Thickness of wall = 300 mm
- (ii) Ceiling height = 3000 mm
- (iii) Level of plinth above the ground = 450 mm
- (iv) Verandah height above floor level = 2500 mm
- (v) Chajj a projection = 450 mm