Sheet No: 3 SCALES

1. Construct a scale of 1:5 to show decimetres and centimetres and to read upto 1 metre. Show the lengths of 7.6 dm and 48 cm on it.

2. An area of 144 sq cm on a map represents an area of 36 sq km on the field. Find the RF of the scale for this map and draw a diagonal scale to show kilometres, hectametres and decametres and to measure upto 10 kilometres. Indicate the following distances on the scale a) 5.36 km b) 73 hectametres.

3. Draw a full size vernier scale to read $\frac{1}{8}$" and $\frac{1}{64}$" lengths and mark on it lengths of $5\frac{7}{32}$", $2\frac{51}{64}$" and $\frac{29}{64}$".

4. Draw a scale of 1:50 showing metres and decimeters, and to measure upto 8 metres. Show the lengths of 740 cm and 32 dm.

5. The distance between two points on a map is 5.75 inch. The points are actually 20 miles apart. Construct a diagonal scale of the map, showing miles and furlongs and to read upto 25 miles.

6. On a building plan, a line 20 cm long represents a distance of 10 m. Devise a vernier scale for the plan to read upto12 m. Show on your scale the lengths 65.8dm and 9.14 m.

7. Construct a diagonal scale of RF = 1/80 to read inches and to measure upto 15 yards. Mark 4 yd 1 ft 9 in, 6 yd 2 ft 3 in and 2 ft 7 in.

8. Construct a vernier scale of RF = 1/32 showing yards, feet and inches and measure upto 4 yards.