Class - IX

Revision Worksheet

Date: 16/02/25

Surface Area & Volume

1) The water for a factory is stored in a hemispherical tank whose internal diameter is 14 m. The tank contains 50 kilolitres of water. Water is pumped into the tank to fill to its capacity. Calculate the volume of water pumped into the tank.

2) 30 circular plates, each of radius 14 cm and thickness 3 cm are placed one above another to form a cylindrical solid. Find —

(i) the total surface area.

(ii) volume of the cylinder so formed.

3) The volumes of two spheres are in the ratio 64 : 27. Then the ratio of their surface areas —

(a) 4 : 9 (b) 16 : 3 (c) 4 : 3 (d) 16 : 9

4) A cloth having an area of 165 m^2 is shaped into the form of a conical tent of radius 5 m. Find the volume of the cone.

5) A right angled triangle with sides 6 cm, 8 cm and 10 cm is revolved about the side 8 cm. Find the volume and the curved surface of the solid so formed.

6) A shopkeeper has one spherical laddoo of radius 5 cm. With the same amount of material how many laddoos of radius 2.5 cm can be made?

7) A beam 9 m long, 40 cm wide and 20 cm deep is made up of iron which weighs 50 kg per m^3. The weight of the beam is —

(a) 27 kg (b) 36 kg (c) 48 kg (d) 56 kg.