SURFACE AREA & VOLUME 9th

- 1. The length, breadth n height are 5m,4m n 3m respectively. Find the cost o white washing the walls n ceiling of the room at the rate of rs 7.50 per m²
- 2. The floor of a rectangle hall has a perimeter 250m. If the cost of painting the four walls at the rate of rs 10 per m² is rs 15000.Find the height of the hall.
- 3. The diameter of the roller is 84 cm and is its length is 120cm. It takes 500 complete revolutions to move once over to level a playground. Find the area of playground in m².
- 4. In a hot water heating system ,there is a cylindrical pipe of length 28m and diameter 5cm.find the total radiating surface in the system.
- 5. Find –(1)-the lateral surface area of a closed cylindrical petrol storage tank that is 4.2m in diameter and 4.5 m high.(2)- how much steel was actually used ,if 1/12 of steel was wasted in making tank.
- 6. The capacity of a cuboidal tank is 50,000 litres of water. Find the breadth of the tank if its length and depth are respectively 2.5m and 10 m.
- 7. A village, having a population of 4000, requires 150 litres of water per head per day. If it has a tank measuring 20m*15m*6m. For how many days will the water of this tank last?
- 8. A river is 3 m deep an d40 m wide is flowing at the rate of 2km per hour. How much water will fall into the sea in 30 min?
- 9. The capacity of a closed cylinder vessel of height 1 m is 15.4 litres. How many square meters of metal sheet would be required?
- 10.A patient in a hospital is given soup daily in a cylindrical bowl of diameter 7 cm. If the bowl is filled with soup to a height of 4 cm, how much soup has to prepare daily to serve 250 patients?