

Mathematics

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(Chapter - 11) (Surface Areas and Volumes) (Exercise 11.4) (Class - 9)

Question 7:

Find the volume of a sphere whose surface area is 154 cm^2 .

Answer 7:

Surface area of sphere $A = 154 \text{ cm}^2$

Let, the radius of sphere $= r \text{ cm}$

We know that the surface area of sphere $= 4\pi r^2$

$$\Rightarrow 154 = 4 \times \frac{22}{7} \times r^2 \Rightarrow r^2 = \frac{154 \times 7}{22 \times 4} = \frac{49}{4}$$

$$\Rightarrow r = \sqrt{\frac{49}{4}} = \frac{7}{2}$$

Volume of sphere $= \frac{4}{3}\pi r^3$

$$= \frac{4}{3} \times \frac{22}{7} \times \left(\frac{7}{2}\right)^3 = \frac{4}{3} \times \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} \times \frac{7}{2} = \frac{539}{3} = 179\frac{2}{3} \text{ cm}^3$$

Hence, the volume of sphere is $179\frac{2}{3} \text{ cm}^3$.

Question 8:

A dome of a building is in the form of a hemisphere. From inside, it was white-washed at the cost of ₹498.96. If the cost of white-washing is ₹2.00 per square metre, find the

(i) inside surface area of the dome,

(ii) volume of the air inside the dome.

Answer 8:

(i) Let the internal radius of dome $= r \text{ m}$

Internal surface area of dome $= 2\pi r^2$

Cost of white washing at the rate of ₹2 $= 2\pi r^2 \times ₹2 = ₹4\pi r^2$

$$\Rightarrow ₹4\pi r^2 = ₹498.96$$

$$\Rightarrow 4 \times \frac{22}{7} \times r^2 = 498.96$$

$$\Rightarrow r^2 = \frac{498.96 \times 7}{4 \times 22} = 39.69$$

$$\Rightarrow r = \sqrt{39.69} = 6.3 \text{ m}$$

Therefore, the internal surface of dome $= 2\pi r^2$

$$= 2 \times \frac{22}{7} \times (6.3)^2$$

$$= 2 \times \frac{22}{7} \times 6.3 \times 6.3$$

$$= 2 \times 22 \times 0.9 \times 6.3$$

$$= 249.48 \text{ m}^2$$

Hence, the inside surface area of the dome is 249.48 m^2 .

(ii) Volume of the air inside the dome $= \frac{2}{3}\pi r^3$

$$= \frac{2}{3} \times \frac{22}{7} \times (6.3)^3$$

$$= \frac{2}{3} \times \frac{22}{7} \times 6.3 \times 6.3 \times 6.3$$

$$= 2 \times 22 \times 0.3 \times 6.3 \times 6.3$$

$$= 523.9 \text{ cm}^3$$

Hence, the volume of the air inside the dome is 523.9 cm^3 .

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