

$$= 88 \times 7 \text{ cm}^2$$

$$= 616 \text{ cm}^2$$

(ii) $r = \frac{21}{2} \text{ cm} = 10.5 \text{ cm}$

Surface area of the sphere = $4\pi r^2$

$$= 4 \times \frac{22}{7} \times (10.5)^2 \text{ cm}^2$$

$$= 4 \times \frac{22}{7} \times 10.5 \times 10.5 \text{ cm}^2$$

$$= 1386 \text{ cm}^2$$

(iii) $r = \frac{3.5}{2} \text{ m} = 1.75 \text{ m}$

Surface area of the sphere = $4\pi r^2$

$$= 4 \times \frac{22}{7} \times (1.75)^2 \text{ m}^2$$

$$= 4 \times \frac{22}{7} \times 1.75 \times 1.75 \text{ m}^2$$

$$= 38.5 \text{ m}^2$$

Question 3: Find the total surface area of a hemisphere of radius 10 cm. (Use $\pi = 3.14$)

Solution: $r = 10 \text{ cm}$

Total surface area of the hemisphere = $3\pi r^2$

$$= 3 \times 3.14 \times (10)^2 \text{ cm}^2$$

$$= 3 \times 3.14 \times 100 \text{ cm}^2$$

$$= 942 \text{ cm}^2$$

Question 4: The radius of a spherical balloon increases from 7 cm to 14 cm as air is being pumped into it. Find the ratio of surface areas of the balloon in the two cases.

Solution: When $r = 7 \text{ cm}$

Surface area of the balloon = $4\pi r^2$

$$= 4 \times \pi \times 7 \times 7 \text{ cm}^2$$

When $R = 14 \text{ cm}$

Chapter 11 2 Waves

Zhe Xu



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