1. If the radius of cylinder is halved and height is doubled, then what will be the curved surface area?

(a) increase by 1

(b) the same

(c) double

(d) triple

2. What is the total surface area of a cone having radius $\frac{r}{2}$ and height 21?

(a) $\pi r\left(1+\frac{r}{4}\right)$ (b) $\pi r\left(r+\frac{l}{4}\right)$ (c) $\pi r\left(1+\frac{r}{2}\right)$ (d) $\pi r\left(4+\frac{l}{2}\right)$

3. If a right circular cone hs radius 4 cm and slant height 5 cm then what is its volume?

(a) 16 π cm^3

(b) 14 π cm^3

(c) 12 π cm^3

(d) 18 π cm^3

4. The radius of a hemisphere is r. What is its volume?

(a) $\frac{4}{3}\pi r^3$ (b) $\frac{2}{3}\pi r^3$ (c) $4\pi r^3$ (d) $2\pi r^3$

5. What is the total surface area of a hemisphere of radius r?

(a) $4\pi r^2$

(b) πr^2

(c) $2\pi r^2$

(d) $3\pi r^2$

6. If the radius of a sphere is doubled, then what is the ratio of their surface area?

(a) 1 : 2

(b) 2 : 1

(c) 1 : 4

(d) 4 : 1

7. Two right circular cones of equal curved surface areas have slant heights in the ratio of 3 : 5. Find the ratio of their radii.

(a) 4 : 1

(b) 3 : 5

(c) 5 : 3

(d) 4 : 5

8. In the cylindrical container, the base radius is 8 cm. If the height of the water level is 20 cm, find the volume of the water in the container.

(a) 5.6721 l

(b) 4.0218 l

(c) 3.8925 l

(d) 4.97 l

9. A well with 10 m inside diameter is dug 14m deep. Earth taken out of it is spread all around it to make an embankment of height $4\frac{2}{3}$m. Find the width of the embankment.

(a) 5 m

(b) 4 m

(c) 4.3 m

(d) 6 m

Answers

1. (b)	**2.** (a)	**3.** (a)	**4.** (b)	**5.** (d)
6. (c)	**7.** (c)	**8.** (b)	**9.** (a)	