

Surface Areas and Volumes : Worksheet -7

- The area of the ring is _____ ()
 (a) $\pi(R^2 - r^2)$ (b) $\pi(R^3 - r^3)$ (c) $\pi(R - r)$ (d) $\pi(R^2 - r)$
- Volume of the hemi hollow spherical vessel is _____. ()
 (a) $\frac{4}{3}\pi(R^3 - r^3)$ (b) $\frac{2}{3}\pi(R^3 - r^3)$ (c) $\frac{1}{3}\pi(R^3 - r^3)$ (d) $\pi(R^3 - r^3)$
- The total surface area of the hemi spherical vessel is _____ ()
 (a) $3\pi R^2 - \pi r^2$ (b) $3(\pi R^2 - \pi r^2)$ (c) $\pi R^2 - 2\pi r^2$ (d) $\pi R^2 - \pi r^2$
- If $4\pi r^2 = \frac{4}{3}\pi r^3$ (in its value), then $r =$ _____ ()
 (a) 1 (b) 2 (c) 3 (d) 4
- If $r = 3$ units, then S.A. of sphere is _____ ()
 (a) $113\frac{1}{7}$ cu. Units (b) $112\frac{1}{7}$ c.c.
 (c) $111\frac{1}{7}$ c.c. (d) $110\frac{1}{7}$
- If $r = 3$ units then volume of the sphere is _____. ()
 (a) $113\frac{1}{7}$ cu. Units (b) $112\frac{1}{7}$ c.c.
 (c) $111\frac{1}{7}$ c.c. (d) $110\frac{1}{7}$
- If $r = \frac{1}{2}$ cm, then surface area of the sphere is _____. ()
 (a) π sq. cm. (b) 2π sq. cm.
 (c) 3π sq. cm. (d) 4π sq. cm.
- If $r = 3\sqrt{\frac{3}{4}}$ = cm, then the volume of the sphere is _____. ()
 (a) π c.c. (b) 2π c.c. (c) 3π c.c. (d) 4π c.c.
- If $r = 1$ cm, then the surface area of hemisphere is ____ ()
 (a) π sq. cm. (b) 2π sq. cm. (c) 3π sq. cm. (d) 4π sq. cm.
- If $r = 1$ cm, then the total surface area of hemisphere is ____ ()
 (a) π sq. cm. (b) 2π sq. cm. (c) 3π sq. cm. (d) 4π sq. cm.

