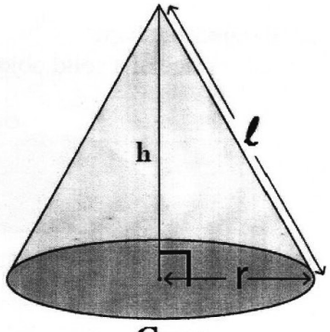
CHAPTER-11

SURFACE AREAS AND VOLUMES

MIND MAP



Cone

Slant height of cone $l = \sqrt{h^2 + r^2}$

Curved Surface area of cone $= \pi r l$

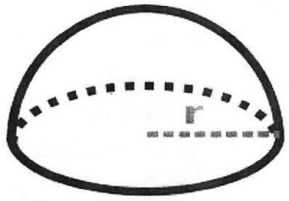
Total Surface area of cone $= \pi r l + \pi r^2$
$= \pi r(l + r)$

Volume of cone $= \frac{1}{3}\pi r^2 h$

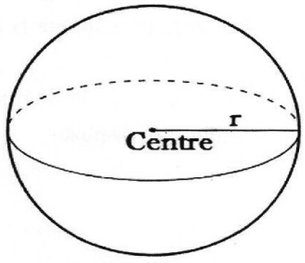
Total Surface area of hemisphere $= 3\pi r^2$

Curved Surface area of hemisphere $= 2\pi r^2$

Volume of hemisphere $= \frac{2}{3}\pi r^3$



Hemisphere



Sphere

Total Surface area of Sphere $= 4\pi r^2$

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