

MIND MAP

Sphere and Hemi-sphere

- (i) Surface area of sphere : $4\pi r^2$
- (ii) Curved surface area of hemi-sphere $2\pi r^2$
- (iii) Total surface area of hemi-sphere $3\pi r^2$
- (iv) Volume of sphere : $\frac{4}{3}\pi r^3$
- (v) Volume of hemi-sphere : $\frac{2}{3}\pi r^3$

Cuboid and cube

- (i) Total surface area of cuboid $2(\ell b + bh + \ell h)$
- (ii) Lateral surface area of cuboid $2(bh + \ell h)$
- (iii) Volume of cuboid : ℓbh
- (iv) Lateral surface area of cube : $4a^2$

Frustum of right circular cone

- (i) Curved surface area of frustum $\pi(R + r)\ell$
- (ii) Total surface area of frustum $\pi(R + r)\ell + \pi R^2 + \pi r^2$
- (iii) Volume of frustum $\frac{1}{3}\pi(R^2 + r^2 + Rr)h$

Right circular cylinder

- (i) Curved surface area of a cylinder $2\pi rh$
- (ii) Total surface area of a cylinder $2\pi r(h + r)$
- (iii) Volume of cylinder : $\pi r^2 h$

Right circular cone

- (i) Curved surface area of a cone : $\pi r\ell$
- (ii) Total surface area of a cone $\pi r(r + \ell)$
- (iii) Volume of Right Circular Cone $\frac{1}{3}\pi r^2 h$