

$$LSA = 2\pi r h$$

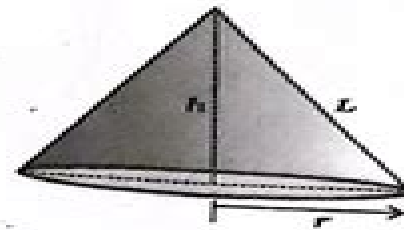
$$TSA = 2\pi r^2 + 2\pi r h$$

5. Cone:

$$V = \frac{1}{3} \pi r^2 h$$

$$LSA = \pi r \sqrt{r^2 + h^2}$$

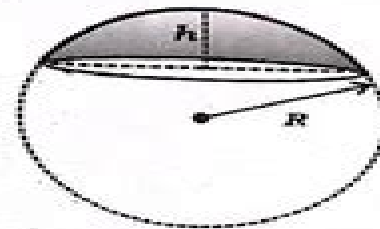
$$TSA = \pi r^2 + \pi r \sqrt{r^2 + h^2}$$



6. Spherical Segment:

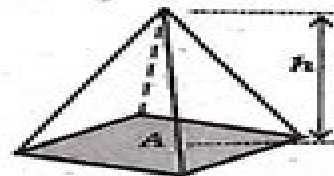
$$V = \frac{\pi h^2}{3} (3R - h)$$

$$Z = \text{area of zone} = 2\pi R h$$



7. Pyramid:

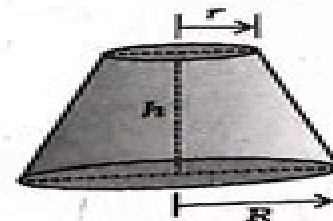
$$V = \frac{1}{3} A h$$



8. Frustums:

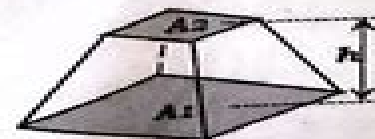
a. Cone:

$$V = \frac{\pi h}{3} (R^2 + Rr + r^2)$$



b. Pyramid:

$$V = \frac{1}{3} h (A_1 + \sqrt{A_1 A_2} + A_2)$$



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