## Chapter Name:Khanaroopangal Marks :(3) Quest:

The base radius and height of cylinder are $10 \mathrm{~cm}, 12 \mathrm{~cm}$ respectively.
a). Find its volume
b). Find the volume of the largest cone that can be carved out from this cylinder.

## Hint:

a)Volume of the cylinder $=\pi \times 10^{2} \times 12=1200 \pi$
b) Volume of the cone $=1200 \frac{\pi}{3}=400 \pi$

Chapter Name:Khanaroopangal Marks :(5)

## Quest:

How many spheres of radius 3 cm can be made by melting and recasting a metal cone of radius 12 cm and height 15 cm ?.

## Hint:

Volume of the cone $=720 \pi \mathrm{~cm} 3$
Volume of Sphere = 36rcm3
Numbrer of spheres $=720 \pi / 36 \pi=20$

