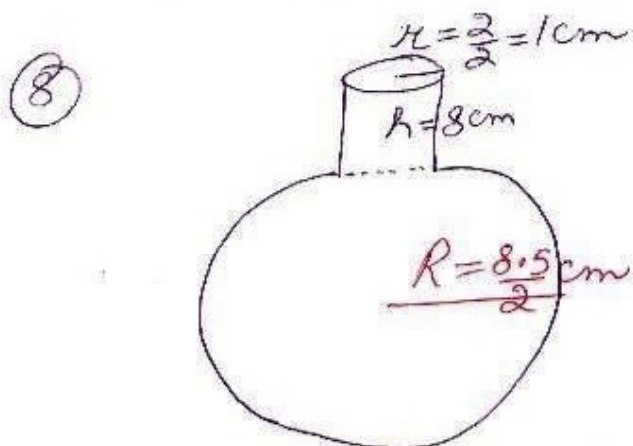


volume of water left
 = vol of cyl - vol of solid
 $= \pi r^2 H - \left(\frac{1}{3} \pi r^2 h + \frac{2}{3} \pi r^3 \right)$
 $= \pi r^2 H - \frac{1}{3} \pi r^2 (h + 2r)$
 $= \pi r^2 \left[H - \frac{1}{3} (h + 2r) \right]$
 $= \frac{22}{7} \times 60 \times 60 \left[180 - \frac{1}{3} (120 + 120) \right]$
 $= \frac{22 \times 3600}{7} \left(180 - \frac{240}{3} \right)$
 $= \frac{22 \times 3600 \times 100}{7}$
 $= \frac{7920000}{7}$
 $= 1131428.57 \text{ cm}^3$
 $= 1.131 \text{ m}^3$



vol of vessel
 = vol of cyl part
 + vol of sph. part
 $= \pi r^2 h + \frac{4}{3} \pi R^3$
 $= \pi \left(r^2 h + \frac{4}{3} R^3 \right)$
 $= 3.14 \left[1 \times 1 \times 8 + \frac{4}{3} \left(\frac{8.5}{2} \right)^3 \right]$
 $= 3.14 \left(8 + \frac{4}{3} \times \frac{8.5 \times 8.5 \times 8.5}{2 \times 2 \times 2} \right)$
 $= 3.14 \left(8 + \frac{614.125}{3 \times 2} \right)$
 $= 3.14 \left(\frac{24}{48} + \frac{614.125}{36} \right)$
 $= \frac{3.14 \times 6.62 \cdot 125}{3}$
 $= \frac{2079.0725}{36}$
 $= 346.51 \text{ cm}^3$
 \therefore not correct