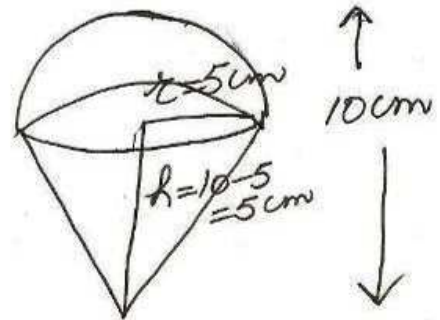


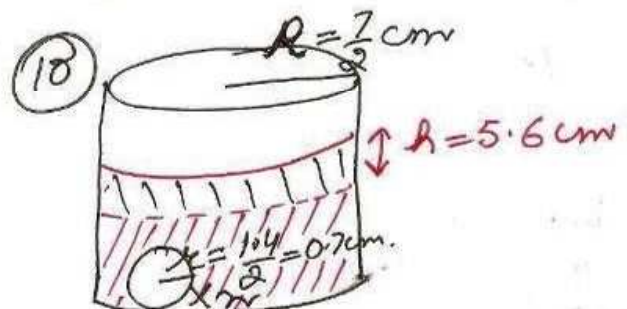
NCERT Exemplar Solutions by (Dev Anoop)

8

9



$$\begin{aligned}
 \text{volume of icecream} &= \frac{5}{6} [\text{vol of cone} + \text{vol of h.s.}] \\
 &= \frac{5}{6} \left[\frac{1}{3} \pi r^2 h + \frac{2}{3} \pi r^3 \right] \\
 &= \frac{5}{6} \times \frac{\pi r^2}{3} (h + 2r) \\
 &= \frac{5}{6} \times \frac{11}{7 \times 3} \times 5 \times 5 (5 + 10) \\
 &= \frac{11 \times 125 \times 15}{3 \times 21} \\
 &= \frac{6875}{21} \\
 &= 327.37 \text{ cm}^3
 \end{aligned}$$



NCERT Exemplar Solutions by (Dev Anoop)

$$\begin{aligned}
 \text{no of marbles } (n) &= \text{vol of water which fits in cylinder} \\
 n \times \frac{4}{3} \pi r^3 &= \pi R^2 H \\
 n \times \frac{4}{3} \times 0.7 \times 0.7 \times 0.7 &= \frac{7}{2} \times \frac{7}{2} \times 5.6 \\
 n &= 150
 \end{aligned}$$