



⑤ volume of cylinder = 1.54 cm^3

$$\pi r^2 h = 1.54$$

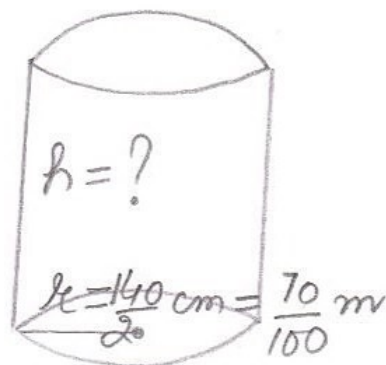
$$\frac{22}{7} \times \frac{70}{100} \times \frac{70}{100} \times h = 1.54$$

$$\Rightarrow h = \frac{1.54 \times 100}{22 \times 7}$$

$$= \frac{154}{154}$$

$$= 1$$

\therefore height of cylinder = 1 m

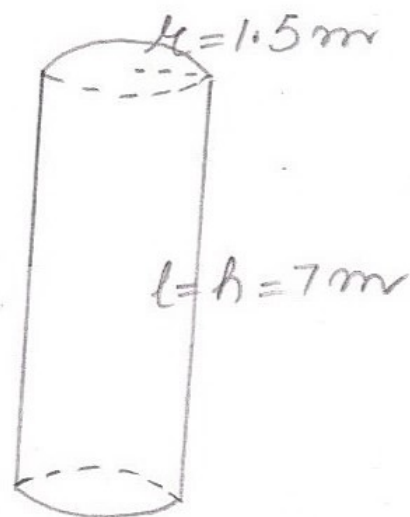


⑥ volume of milk tank can store = $\pi r^2 h$

$$= \frac{22}{7} \times 1.5 \times 1.5 \times 7$$

$$= 49.5 \text{ m}^3$$

$$= 49.5 \text{ kl}$$



⑦ $\frac{\text{volume}_1}{\text{volume}_2} = \frac{s_1^3}{s_2^3} = \frac{x \times x \times x}{2x \times 2x \times 2x}$

$$= \frac{1}{8}$$

$$\therefore \text{volume}_2 = 8 \text{ volume}_1$$

$$\frac{\text{surface area}_2}{\text{surface area}_1} = \frac{6s_2^2}{6s_1^2} = \frac{x \times x}{2x \times 2x}$$

$$\therefore \text{surface area}_2 = 4 \text{ surface area}_1$$

