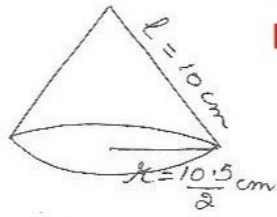
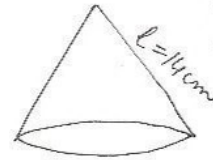


①



Ex 13.3

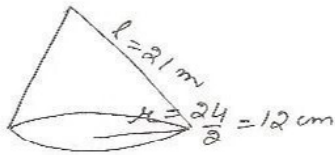
③



$$\begin{aligned} \text{C.S.A.} &= \pi r l \\ &= \frac{22}{7} \times \frac{10.5}{2} \times 10 \\ &= 165 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} \text{C.S.A.} &= 308 \text{ cm}^2 \\ \pi r l &= 308 \\ \frac{22}{7} \times r \times 14 &= 308 \\ \Rightarrow r &= \frac{308 \times 7}{22 \times 14} \\ &= 7 \text{ cm} \end{aligned}$$

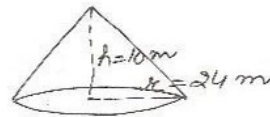
②



$$\begin{aligned} \text{t.S.A.} &= \pi r (r + l) \\ &= \frac{22}{7} \times 12 (12 + 21) \\ &= \frac{22}{7} \times 12 \times 33 \\ &= \frac{8712}{7} \\ &= 1244.57 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} \text{t.S.A.} &= \pi r (r + l) \\ &= \frac{22}{7} \times 7 (7 + 14) \\ &= 22 \times 21 \\ &= 462 \text{ cm}^2 \end{aligned}$$

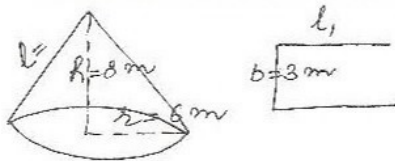
④



$$\begin{aligned} l &= \sqrt{h^2 + r^2} \\ &= \sqrt{10^2 + 24^2} \\ &= \sqrt{100 + 576} \\ &= \sqrt{676} \\ &= 26 \text{ m} \\ \text{CSA} &= \pi r l \\ \text{Cost} &= \pi r l \times 70 \\ &= \frac{22}{7} \times 24 \times 26 \times 70 \\ &= ₹ 137280 \end{aligned}$$

⑤

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$$\begin{aligned} l &= \sqrt{r^2 + h^2} \\ &= \sqrt{6^2 + 8^2} \\ &= \sqrt{100} \\ &= 10 \text{ m} \end{aligned}$$

area of cloth reqd. = CSA of tent

$$\begin{aligned} l_1 b &= \pi r l + 2 \\ \therefore l_1 &= \frac{3.14 \times 6 \times 10}{3} \\ \Rightarrow l_1 &= 62.8 \text{ m} \end{aligned}$$

$$\begin{aligned} \text{total length of cloth reqd.} &= 62.8 + \frac{20}{100} \\ &= 62.8 + 0.2 \\ &= 63 \text{ m} \end{aligned}$$