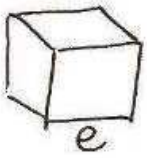
(7)



$$LSA = 256\ m^2$$

$$4e^2 = 256$$

$$e^2 = 64$$

$$\Rightarrow e = \sqrt{64}$$

$$= 8\ m$$

$$\text{volume} = e^3$$

$$= 8^3$$

$$= 512\ m^3 \quad (A)$$

(8) no. of planks

$$= \frac{1600 \times 1200 \times 400}{400 \times 50 \times 20}$$

$$= 1920 \quad (B)$$

(9) length of pole

$$= \sqrt{l^2 + b^2 + h^2}$$

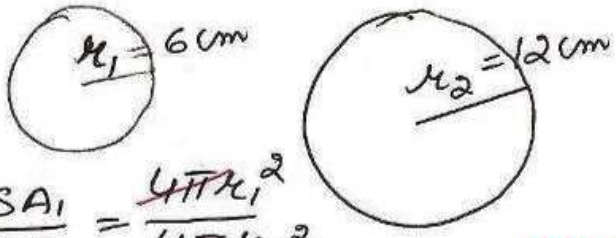
$$= \sqrt{10^2 + 10^2 + 5^2}$$

$$= \sqrt{100 + 100 + 25}$$

$$= \sqrt{225}$$

$$= 15 \quad (A)$$

(10)



$$\frac{SA_1}{SA_2} = \frac{4\pi r_1^2}{4\pi r_2^2}$$

$$= \frac{6 \times 6}{12 \times 12}$$

$$= \frac{1}{4} \quad (A)$$