



MM 25

Surface Area and Volume

Time 1 hour

Section A 1 Marks Each

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- The length of a cold storage is double its breadth. If its height is 7 meters, the area of its four walls (including doors) is 210m^2 . then its total surface area is
(a) 310m^2 (b) 25m^2 (c) 120m^2 (d) 328m^2
- The dimensions of a room are $8\text{ m} \times 4\text{ m} \times 2\text{ m}$. The length of longest iron rod which can be placed in the room is
(a) $\sqrt{21}\text{ m}$ (b) $4\sqrt{21}\text{ m}$ (c) $2\sqrt{21}\text{ m}$ (d) $3\sqrt{21}\text{ m}$
- The curved surface area of a cylinder of height 14 cm is 88 sq. cm. The diameter of the cylinder is
(a) 0.5 cm (b) 1.0 (c) 1.5 cm (d) 2cm
- The diameters of two cones are equal. If their slant heights are in the ratio 5 : 4. The ratio of their curved surface area is
(a) 1:1 (b) 3:2 (c) 5:4 (d) 4:5
- If base radius of a right circular cylinder is halved, keeping the height same, then the ratio of the volume of the reduced cylinder to that of the original cylinder is
(a) 1:2 (b) 1:4 (c) 1:27 (d) 1:8.

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Section B 2 Marks Each

- Two cubes each of edge 20cm are joined end to end. Find the surface area of the resulting cuboid.
- The floor of a rectangular hall has a perimeter 250 m. if the cost of painting the four walls at the rate of Rs.10 per m^2 is Rs.15000, find the height of the hall.
- A small indoor green house (herbarium) is made entirely of glass panes (including base) held together with tape it is 30 cm long, 25 cm wide and 25 cm high. How much tape is needed for all the 12 edges?

Section B 3 Marks Each

- What length of tarpaulin 4 m wide will be required to make conical tent of height 12 m and base radius 5m? Assume that the extra length of material that will be required for stitching margins and wastage in cutting is approximately 30 cm. (use $\pi = 3.14$)
- The cost of painting the total outside surface of a closed cylindrical oil tank at 60 paise per sq. dm. is Rs. 237. 60. The height of the tank is 6 times the radius of the base of the tank. Find the volume correct to two decimal places.

Section D 4 Marks Each

- The internal and external diameters of a hollow hemispherical vessel are 24 cm and 27.5 cm respectively. The cost to paint $1m^2$ of the surface is Rs. 0.05 Find the total cost to paint the vessel all over. (Use $\pi = 22/7$).
- The radius of a sphere is increased by 10%. prove that the volume will be increased by 33.1% approximately.

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