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MATHEMATICS (Class-10)

Chapter : Surface Area & Volumes

Take π = 22/7, unless stated otherwise.

1 marks Questions

Q-1 What is the surface area of a cube whose volume is 64 cm^3?

Q-2 A wooden solid sphere of radius r cm is divided into two equal parts. What is the whole surface area of the two parts?

Q-3 If the curved surface area of a right circular cylinder is 1760 cm^2 and its radius is 21 cm, then what is its height?

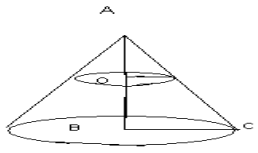
Q-4 Two cubes each of volume 64 cm^3 are joined face to face. What is the surface area of the resulting cuboid ?

Q-5 How many balls, each of radius 1 cm, can be made from a solid sphere of lead of radius 8 cm ?

2/3 marks Questions

Q-6 Circumference of the edge of hemispherical bowl is 132 cm. Find the capacity of the bowl.(π = 22/7)

Q-7 In the given figure, a cone of radius 10 cm is divided into two parts by drawing a plane through the mid-points of its axis, parallel to its base. Compare the volume of the two parts?



Q-8 Find the volume of the largest right circular cone that can be cut out of a cube whose radius is 9 cm.

Q-9 50 circular plates, each of radius 10.5 cm and thickness 1.6 cm, are placed one above the other to form a solid circular cylinder. Find the curved surface are and volume of the cylinder so formed?

Q-10 the radii of the internal and external surfaces of a metallic spherical shell are 3 cm and 5 cm respectively. It is melted and recast into a solid right circular cylinder of height 10 $\frac{2}{3}$ cm. Find the diameter of the base of the cylinder.