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CBSE 10th Surface Areas Volume Unsolved Paper

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CBSE 10th Surface Areas Volume

Unsolved Paper

- Q.1.** How many spherical bullets each of 5cm in diameter can be cast from a rectangular block of metal $11\text{dm} \times 1\text{m} \times 5\text{dm}$?
- Q.2.** 22 Cubic dm of grass is to be drawn into a cylinder wire 0.25 cm in diameter. Find the length of wire?
- Q.3** A cylindrical vessel having diameter equal to its height is full of water which is poured into two identical cylindrical vessels with diameter 42cm and height 21cm which are filled completely. Find the diameter of cylindrical vessel?
- Q.4.** 50 circular plates each of diameter 14cm and thickness 0.5 cm are placed one above other to form a right circular cylinder. Find its total surface area?
- Q.5.** Find the volume of the largest right circular cone that can be cut out of a cube where edge is 9cm_____?
- Q.6.** A conical flask is full of water. The flask has base radius r and height h . the water is proved into a cylindrical flask off base radius one. Find the height of water in the cylindrical flask?
- Q.7.** A rectangular tank 15m long and 11m broad is required to receive entire liquid contents from a full cylindrical tank of internal diameter 21m and length 5m. Find least height of tank that will serve purpose_____?
- Q.8** A hollow sphere of internal and external radii 2cm and 4cm is melted into a cone of base radius 4cm. find the height and slant height of the cone_____?
- Q.9.** The difference between outer and inner curved surface areas of a hollow right circular cylinder 14cm long is 88cm^2 If the volume of metal used in making cylinder is 176cm^3 find the outer and inner diameters of the cylinder_____?

Q.10. An iron spherical ball has been melted and recast into smaller balls of equal size. If the radius of each of the smaller balls is $\frac{1}{4}$ of the radius of the original ball, how many such balls are made? Compare the surface area, of all the smaller balls combined together with that of the original ball.

Q.11. A tent of height 77dm is in the form a right circular cylinder of diameter 36m and height 44dm surmounted by a right circular cone. Find the cost of canvas at Rs.3.50 per m^2 ?

Q.12. The largest sphere is to be curved out of a right circular of radius 7cm and height 14cm. find volume of sphere?

Q.13 A copper sphere of radius 3cm is melted and recast into a right circular cone of height 3cm. find radius of base of cone?

Q.14 A copper rod of diameter 1cm and length 8cm is drawn into a wire of length 18m of uniform thickness. Find thickness of wire?

Q.14. A well with inner radius 4m is dug 14m deep earth taken out of it has been spread evenly all around a width of 3m it to form an embankment. Find the height of the embankment?

Q.15 The surface area of a solid metallic sphere is 616 cm^2 . It is melted and recast into a cone of height 28 cm. Find the diameter of the base of the cone so formed (*use it = $\frac{22}{7}$*)

Q.16. The difference between the outer and inner curved surface areas of a hollow right circular cylinder 14cm long is 2 88cm . If the volume of metal used in making cylinder is 3 176cm find outer and inner diameters of the cylinder?

Q.17. The volume of a is $2425\frac{1}{2} cm^3$. Find its curved surface area ?

Q.18. A solid is in the form of a right circular cylinder, with a hemisphere at one end and a cone at the other end. The radius of the common base is 3.5 cm and the heights of the cylindrical and conical portions are 10 cm. and 6 cm, respectively. Find the total surface area of the solid.

$$Use \pi = \frac{22}{7}$$

Q.19. A petrol tank is a cylinder of base diameter 21cm and length 18cm fitted with conical ends each of axis 9cm. determine capacity of the tank?

Q.20. A bucket has top and bottom diameters of 40 cm and 20 cm respectively. Find the volume of the bucket if its depth is 12 cm. Also, find the cost of tin sheet used for making the bucket at the rate of Rs 1.20 per m^2 . (Use $\pi = 3.14$)

Q.21. The slant height of the frustum of a cone is 4cm and perimeters of its circular ends are 18cm and 6cm. find curved surface of the frustum?

Q.22. If the radii of circular ends of a bucket 24cm high are 5cm and 15cm. find surface area of bucket?

Q.23. A metallic right circular cone 20cm high and whose vertical angle is 90° is cut into two parts at the middle point of its axis by a plane parallel to base. If frustum so obtained be drawn into a wire of diameter $\frac{1}{16}$ cm. find length of the wire?

Q.24. A bucket made up of a metal sheet is in form of a frustum of cone of height 16cm with diameters of its lower and upper ends as 16cm and 40cm. find the volume of bucket. Also find cost of bucket if the cost of metal sheet used is Rs 20 per $100cm^2$.

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