CBSE TEST PAPER CH: SURFACE AREA AND VOLUME CLASS -10

diameter 8 m and height 3 m. (π = 3.14) Ans: 251.2m² A cylinder has hemispherical ends having radius 14 cm and height 50 cm. Find the total surface area. Ans: 6864cm2 A box is made up of a cylinder surmounted by a cone. The radius of the cylinder and cone is 12 cm and slant height of the cone is 13 cm. The height of the cylinder is 11 cm. Find the curved surface area of the box. Ans 130cm2 A hatalic cylinder has diameter 1 m and height 3.2 m. Find the cost of painting its outer surface at the rate of ₹ 35 per square meter. (π = 3.14) Ans: Rs. 406.63 The total surface area of a solid composed of a cone with hemispherical base is 361.1 cm². (π = 3.14) The dimension are shown in figure 14.9. Find the total height of the solid. Ans: 17cm Ans: 1050 A hemispherical tank full of water is emptied by a pipe at the rate of 14½ litres per second. How much time will it take to empty three fourth of the tank, if it is 4 m in diameter? Ans: 880sec A 30 m deep cylindrical well with diameter 7 m is dug and the soil obtained by digging is evenly spread out to form a platform 30 m × 10 m. Find the height of the platform. Ans: 3.85m How many spherical balls of diameter 0.5 cm can be cast by melting a metal cone with radius 6 cm and height 14 cm? Ans: 1008 Select a proper option (a), (b), (c) or (d) from given options (a) ½π (b) 0.96π (c) 2.152π (d) 3.456π (a) 1.152π (b) 0.96π (c) 2.152π (d) 3.456π (a) 1.152π (b) 0.96π (c) 2.152π (d) 2.5 (d) 2.5 (d) 2.5 (d) The volume of sphere with radius 1.2 cm is cm³.		
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Ans: 664cm2 3	Ans:	251.2m ²
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