

1. The radius and slant height of a cone are in the ratio 4 : 7. If the Curved surface area is 792 cm^2 , then radius will be (2011)
- (a) 7 cm (b) 11 cm
(c) 12 cm (d) 28 cm

Ans. (c)

2. The volume of the sphere curved out of a cube of side 7 cm is (2011)
- (a) $\frac{343}{6} \pi \text{ cm}^3$ (b) $\frac{343}{7} \pi \text{ cm}^3$
(c) $\frac{343}{8} \pi \text{ cm}^3$ (d) None of these

Ans. (d)

3. If cube of surface S has volume V, then volume of cube of surface area 2S is (2012)
- (a) $\sqrt{2} V$ (b) 2V
(c) $2\sqrt{2} V$ (d) 4V

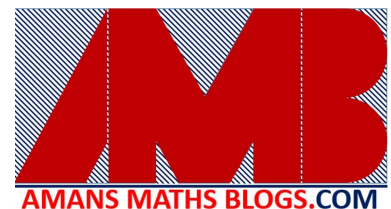
Ans. (c)

4. The radius and slant height of a cone are in the ratio 4 : 7 If the curved surface area of the cone is 792 cm^2 Then radius of the cone is: (2012)
- (a) 3cm (b) 11cm
(c) 12cm (d) 28cm

Ans. (c)

5. Square pieces of side 2 cm are cut off from each corner of a square sheet of side 9 cm. The flaps of the sheet so formed are folded to form an open box. The volume of the box is (2013)
- (a) 20 cm^3 (b) 28 cm^3
(c) 50 cm^3 (d) 98 cm^3

Ans. (c)



6. Volumes of two spheres are in the ratio 125 : 64. The ratio of their surface areas will be
- (a) 5 : 4 (b) 25 : 16 (2013)
(c) 16 : 25 (d) 125 : 64

Ans. (b)

7. 20 circular plates each of radius 14 cm and thickness 2 cm are placed on above the other to form a cylindrical solid. The total surface area will be (2013)
- (a) 2992 cm^2 (b) 3520 cm^2
(c) 4752 cm^2 (d) 24640 cm^2

Ans. (c)

8. The ratio of the volumes of two cubes is 729 : 1331. The ratio of their total surface area is (2014)
- (a) 9 ; 11 (b) 729 : 1331
(c) 81 : 121 (d) 27 : 121

Ans. (c)

9. A conical tent is 12m high and radius of its base is 9m. What is the cost of canvas required to make the tent, if the cost of 1m^2 canvas is Rs. 14? (2015)
- (a) Rs. 5840 (b) Rs. 5940
(c) Rs. 4950 (d) Rs. 5960

Ans. (b)

