

- 1) If total surface area of a cube is 'S' square unit and the length of the diagonal is 'd' unit, then the relation between 'S' and 'd' is
i) $S = 6d^2$ ii) $3S = 7d$ iii) $S^3 = d^2$ iv) $d^2 = \frac{S}{2}$

(1)

- 2) In a right circular cylinder, if the length of radius is halved and height is doubled; volume of cylinder will be

a) equal b) double c) half d) 4 times (1)

- 3) If the height of a right circular cylinder is 14 cm and lateral surface area 264 sq. cm, then find the volume of the cylinder. (2)

- 4) If the lateral surface area of a right circular cylinder is 'p' square unit, length of radius of base is 'r' unit and volume is v unit³, then find the value of $\frac{pr}{v}$. (2)

- 5) The length of each edge of three solid cubes are 3 cm, 4 cm and 5 cm respectively. A new solid cube is made by melting these three solid cubes. Find the length of edge of the new cube. (3)

- 6) The ratio of radius and height of a cylinder is 2:3. If its volume is 12936 cm³, find the T.S.A. (3)