Choose the correct option in the following questions.

22) The volume of a cylinder is $300m^3$. Then the volume of a cone having the same radius and height has that of the cylinder is

A) 900 m^3 ☐ B) 600 m^3 ☐ C) 150 m^3 ☐ D) 100 m^3 ☐

23) The surface area of a sphere of radius 7 cm is

A) 154 cm^2 ☐ B) 308 cm^2 ☐ C) 616 cm^2 ☐ D) 770 cm^2 ☐

24) The curved surface area of a hemisphere of radius 14 cm

A) 1232 cm^2 ☐ B) 308 cm^2 ☐ C) 616 cm^2 ☐ D) 2464 cm^2 ☐

25) If the volume of a cone is 300 m^3 then the volume of a cylinder having same radius and same height as that of cylinder is

A) 900 m^3 ☐ B) 600 m^3 ☐ C) 150 m^3 ☐ D) 100 m^3 ☐

27) The surface area of a sphere is 616 cm^2 .Its radius is

A) 7 cm ☐ B) 14 cm ☐ C) 21 cm ☐ D) 28 cm ☐

28) If two solid hemispheres of same radius are joined together along their bases. The surface area of this new solid is

A) $3\pi r^2$ ☐ B) $4\pi r^2$ ☐ C) $5\pi r^2$ ☐ D) $6\pi r^2$ ☐

29) A cylinder and cone are of same base,radius and height. Then the ratio of their volume is

A) 2:1 ☐ B) 3:1 ☐ C) 2:3 ☐ D) 3:2 ☐

30) A solid has been melted and recast into a wire. Which of the following remains same.

A) Lenght ☐ B) Volume ☐ C) Radius ☐ D) Height ☐

32) The slant height of a cone having radius 5cm and height 12 cm is

A) 6 cm ☐ B) 9 cm ☐ C) 11 cm ☐ D) 13 cm ☐

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