

Choose the correct option in the following questions.

22) The volume of a cylinder is  $300\text{m}^3$ . Then the volume of a cone having the same radius and height has that of the cylinder is  
A)  $900\text{ m}^3$   B)  $600\text{ m}^3$   C)  $150\text{ m}^3$   D)  $100\text{ m}^3$

23) The surface area of a sphere of radius 7 cm is  
A)  $154\text{ cm}^2$   B)  $308\text{ cm}^2$   C)  $616\text{ cm}^2$   D)  $770\text{ cm}^2$

24) The curved surface area of a hemisphere of radius 14 cm  
A)  $1232\text{ cm}^2$   B)  $308\text{ cm}^2$   C)  $616\text{ cm}^2$   D)  $2464\text{ cm}^2$

25) If the volume of a cone is  $300\text{ m}^3$  then the volume of a cylinder having same radius and same height as that of cylinder is  
A)  $900\text{ m}^3$   B)  $600\text{ m}^3$   C)  $150\text{ m}^3$   D)  $100\text{ m}^3$

27) The surface area of a sphere is  $616\text{ cm}^2$ . 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) Length  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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