

Choose the correct option from the following questions.

- 11) The formula to find total surface area of a sphere having radius "r" is  
A)  $\pi r^2$   B)  $2\pi r^2$   C)  $3\pi r^2$   D)  $4\pi r^2$
- 12) The formula to find volume of sphere having radius "r" is  
A)  $4\pi r^2$   B)  $\frac{4}{3}\pi r^3$   C)  $\frac{2}{3}\pi r^3$   D)  $\pi r^2 h$
- 13) The relationship between radius "r" and height "h" and slant height "l" of a cone is  
A)  $l^2 = r^2 + h^2$   B)  $r^2 = l^2 + h^2$   C)  $l^2 = r^2 - h^2$   D)  $h = r^2 + l^2$
- 14) The surface area of a sphere is 616 sq.m. The surface area of its hemisphere is  
A)  $205.6 \text{ cm}^2$   B)  $308 \text{ cm}^2$   C)  $1232 \text{ cm}^2$   D)  $38 \text{ cm}^2$
- 15) The surface area of a sphere is 2464 sq.m. The surface area of its hemisphere is  
A)  $205.6 \text{ cm}^2$   B)  $308 \text{ cm}^2$   C)  $1232 \text{ cm}^2$   D)  $38 \text{ cm}^2$
- 16) The perimeter of the base of a right circular cylinder is 44 cm and its height is 10 cm. Then its volume is  
A)  $490\pi \text{ cm}^3$   B)  $440\pi \text{ cm}^3$   C)  $374\pi \text{ cm}^3$   D)  $980\pi \text{ cm}^3$
- 17) Prepare a cone from "model clay". When wet, cut it with a knife parallel to its base, remove the smaller cone obtained. The solid left is a  
A) Cylinder  B) Cone  C) Sphere  D) Frustum of a cone
- 18) The perimeter of the base of a right circular cylinder is 44 cm and its height is 10 cm. Then its lateral surface area is  
A)  $490 \text{ cm}^2$   B)  $440 \text{ cm}^2$   C)  $374 \text{ cm}^2$   D)  $220 \text{ cm}^2$

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