

Choose the correct option from the following questions.

11) The formula to find total surface area of a sphere having radius "r" is
A) πr^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 cm² B) 308 cm² C) 1232 cm² D) 38 cm²

15) The surface area of a sphere is 2464 sq.m. The surface area of its hemisphere is
A) 205.6 cm² B) 308 cm² C) 1232 cm² D) 38 cm²

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) 490π cm³ B) 440π cm³ C) 374π cm³ D) 980π cm³

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 cm² B) 440 cm² C) 374 cm² D) 220 cm²

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