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) $4/3\ \pi r^3$ ☐ C) $2/3\ \pi r^3$ ☐ 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 cm^2 ☐ B) 308 cm^2 ☐ C) 1232 cm^2 ☐ D) 38 cm^2 ☐

15) The surface area of a sphere is 2464 sq.m. The surface area of its hemisphere is

A) 205.6 cm^2 ☐ B) 308 cm^2 ☐ C) 1232 cm^2 ☐ D) 38 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) $490\ \pi\ cm^3$ ☐ B) $440\ \pi\ cm^3$ ☐ C) $374\ \pi\ cm^3$ ☐ D) $980\ \pi\ cm^3$ ☐

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 cm^2 ☐ B) 440 cm^2 ☐ C) 374 cm^2 ☐ D) 220 cm^2 ☐

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