

## ONE MARK TEST

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## KOLIYANUR – VILLUPURAM DISTRICT

## ENGLISH MEDIUM

## LESSON - 7

## TEST - 2



1 If two solid hemispheres of same base radius  $r$  units are joined together along their bases, then curved surface area of this new solid is  
(A)  $4\pi r^2$  sq. units   (B)  $6\pi r^2$  sq. units   (C)  $3\pi r^2$  sq. units   (D)  $8\pi r^2$  sq. units

2 If the radius of the base of a right circular cylinder is halved keeping the same height, then the ratio of the volume of the cylinder thus obtained to the volume of original cylinder is  
(A) 1:2   (B) 1:4   (C) 1:6   (D) 1:8

3 A solid sphere of radius  $x$  cm is melted and cast into a shape of a solid cone of same radius. The height of the cone is  
(A)  $3x$  cm   (B)  $x$  cm   (C)  $4x$  cm   (D)  $2x$  cm

4 The height and radius of the cone of which the frustum is a part are  $h_1$  units and  $r_1$  units respectively. Height of the frustum is  $h_2$  units and radius of the smaller base is  $r_2$  units. If  $h_2 : h_1 = 1 : 2$  then  $r_2 : r_1$  is  
(A) 1:3   (B) 1:2   (C) 2:1   (D) 3:1

5 A shuttle cock used for playing badminton has the shape of the combination of  
(A) a cylinder and a sphere   (B) a hemisphere and a cone  
(C) a sphere and a cone   (D) frustum of a cone and a hemisphere

6 The curved surface area of a right circular cone of height 15 cm and base diameter 16 cm is  
(A)  $60\pi$  cm<sup>2</sup>   (B)  $68\pi$  cm<sup>2</sup>   (C)  $120\pi$  cm<sup>2</sup>   (D)  $136\pi$  cm<sup>2</sup>

