BCM School, Basant Avenue, Dugri Road, Ludhiana
Class IX
Answer Key of Maths Assignment

Surface Area And Volume

Q 5 The volume of the hemisphere = $\frac{2}{3}\pi r^3$

$\frac{2}{3}\pi r^3 = 1152\pi$

$r^3 = 1728$

$r = 12cm$

The curved surface area of the hemisphere $= 2\pi r^2$

$=288\pi\ cm^2$

Q6 Number of cones formed $n = \frac{\text{Volume of sphere}}{\text{Volume of one cone}}$

$n = 126$

Q7. $r_1 : r_2 = 3 : 5$

Q8. I) $r = 3\pi r^2$

ii) Volume of 2 domes = $179.67m^3$

iii) Volume of 2 bushes = $369600cm^3$

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