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A Christian Jesuit minority Institution

Subject: Mathematics

Class: X

Date:18.04.2020

Worksheet-11

Chapter-Sphere

Topic - Whole surface area and volume of a sphere

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Ъ,	Choose the correct alternative.	1x15=15	
	a)Volume of a sphere with radius 4 cm is	i) 269.19 cubic cm	ii) 268.19 cubic cm iii)
	219.68 sq cm iv) none of these		
	L) Williams of a second second discussion in the F22 F00 second is set it F00 F22 second is set		

b) Volume of a sphere with 10m diameter is i) 523.599 cubic m ii) 599.523 cubic m iii) 325.599 cubic m iv) none of these

c)Ratio of curved surface area of 2 spheres is 16:9. Then ratio of their volume is $\frac{1}{27}$ (64, 127, 12) 27/64, 12) none of these

i) 64/27 ii) 27/64 iii) 16/9 iv) none of thesed) If the numerical value of curved surface area and 3 times the volume of the sphere

are same. Then radius is i) 2 units ii) 3 units iii) 1 unit iv) none of these

e)Volume of a sphere with 2r unit radius is i) $\frac{32}{4}$ Πr^3 cubic unit ii) $\frac{32}{3}$ Πr^2 sq unit iii) $\frac{32}{2}$ Πr^3 cubic unit iv) none of these

f) If radius of a sphere becomes twice then volume will become i) 8 times the old volume ii) 3 times the old volume iii) 2 times the old volume

g) If ratio of volume of 2 spheres is 1:8, then ratio of curved surface area is i) 4:1 ii) 1:4 iii) 1:8 iv) none of these

h)If whole surface area of a sphere is 2464 sq m. Then diameter of the sphere is i) 14 m ii) 28 m iii) 28 cm iv) none of these

i) How much leather is needed to make a ball with 42 cm diameter i) 5544 sq cm ii) 4455 sq cm iii) 5544cubic cm iv) none of these

j)If a ball with 28 cm diameter is fully immersed in a pot full of water, amount of water flown out of the pot is i) 11499.67 cubic cm ii) 11498.67 cubic cm iii) 11498.67 sq cm iv) none of these

k) Whole surface area of a sphere with 10.5 cm radius is i) 3186 sq cm ii) 3186 cubic cm iii) 1386 sq cm iv) none of these

l) After melting 3 spheres with radius 3cm , 4 cm amd 5 cm respectively a big sphere is formed. The length of the radius of the big sphere is i) 6 cm ii) 8 cm iii) 9 cm iv) none of these

m) Radius of a balloon expanded from 7 cm o 21 cm .Ratio of the whole surface area of these 2 states is i) 9:1 ii) 1:8 iii) 1:9 iv) none of these

n) A cupper sphere with 14 cm diameter is melted and a number of new spheres with 3.5 cm are formed. The number of new spheres are i) 64 ii) 46 iii) 32 iv) none of these

o)A sphere with 8 cm radius is melted and a number of new spheres with 1cm radius are formed. Number of new spheres that can be formed is i) 514 ii) 512 iii) 215 iv) none of these

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