

C) 5 cm³

Ans: D) 5.5 cm³

Selvam College Of Technology, Namakkal (Autonomous)

IT Support & Development Training Programme



4	Step to Steens &	11 3	Support & Development Train (ISDTP)	iing Programme	NAAC		
Worksheet -10 (Volume and Surface)							
Bundle &			Advanced Bundle V2				
Subject			(2025) – Aptitude	Semester	VI		
Name			(Level-4)				
			Answer Key				
1.	. The dimensions of a cuboid are 16 cm, 18 cm and 24 cm. Find its volume						
	A) 5912 d	cm ³	B) 6923 cm ³				
C) 6912 cm ³		cm³	D) 4912 cm ³				
	Ans: C) 6	912 cr	n ³				
2.	A brick measures 20 cm × 10 cm × 7.5 cm. How many bricks will be required to				oe required for		
a wall whose dimension is 20 m × 2 m × 0.75 m?							
	A) 22,000)	B) 30,000				
	C) 25,000)	D) 20,000				
	Ans: D) 2	0,000					
3.	3. A cylindrical piece of metal of radius 2 cm and height 6 cm is shaped into a con						
	of same radius. The height of the cone is						
	A) 18 cm		B) 36 cm				
	C) 27 cm		D) 9 cm				
	Ans: A) 1	8 cm					
4.	Find the volume of an iron rod that is 7 cm long and whose diameter						
	is 1 cm.						
	A) 4.5 cm	1 ³	B) 6.5 cm ³				

D) 5.5 cm³

	12cm.The ratio between volume of the balloon in the beginning and the end is					
	A) 1:8	B) 2:7				
	C) 8:1	D) 2:3				
	Ans: A) 1:8					
6.	How many right circular cones having the same diameter and height as those of $% \left\{ 1,2,\ldots ,n\right\}$					
	the right circular cylinder will be needed to store that water?					
	A) 1	B) 2				
	C) 3	D) 4				
	Ans: C) 3					
7.	If the heights of two cones are in the ratio 1: 4 and their diameters in					
	the ratio 4 5. What is the ratio of their volumes?					
	A) 4:25	B) 9:25				
	C) 16:25	D) 1:25				
	Ans: A) 4:25					
8.	A cone, a hemisphere and a cylinder stand on equal base and have					
	the same height then the ratio of their volume is					
	A) 2:3:4	B) 1:2:3				
	C) 3:4:5	D) 1:2:4				
	Ans: B) 1:2:3					
9.	If a cone's height and base radius are both increased by 100%, the					
	cone's volume will change by					
	A) 800%	B) 700%				
	C) 500%	D) 400%				
	Ans: B) 700%					
10.	The curved surface area of hemisphere is 2772 cm ² . Then the					
	total surface area of hemisphere is					
	A) 4158 cm ²	B) 3172 cm ²				
	C) 3882 cm ²	D) 4258 cm ²				
	Ans: A) 4158 cm ²					

5. As air is pumped into a spherical balloon the radius increases from 6cm to