

ASSIGNMENT - 4

Max Marks:20			Subjec Time	: 1 Hour
	CHAPTER	– 4 CUBES ANI	CUBE ROOTS	
Q.1 Which of the	following is the	cube of a negative	ve number?	
a396	b. 4096	c81	d2744	
Q.2 Calculate the	e value of $\sqrt[3]{64}$ +	$\sqrt{9^2}$		
a. 4	b. 3	c. 13	d. 77	
Q.3 Which of the	following is the	cube of an integ	er?	
a. 200	b. 9	c. 512	d. 1024	
$Q.4 \sqrt[3]{3 - \frac{17}{27}} =$				
a. $\frac{4}{3}$		c. $\frac{1}{4}$	d. $\frac{1}{3}$	
$Q.5(3)^3 - (-0.6)$) ³ =			
	_	c26.784	d27.216	
Q.6 The value of	$(-0.4)^3$ is			
a -		c0.064	d0.640	
Q.7 If $\sqrt[3]{x-12}$	= 19 then the va	lue of x is		
a. 6871	b. 6072	c. 6889	d. 5080	
Q.8 Which of the	•	oers is a perfect c	ube?	
a. 1525	b. 1728	c. 1458		
_		multiplied to 345	6 so that the produc	et becomes
a perfect cu				
a. 2	b. 3	c. 4	d. 6	
$Q.10 \sqrt[3]{144} \times \sqrt[3]{1}$	-			
a. 12	b. 14	c. 13	d. 6	
Q.11 Possible un	•		_	
a. 0	b. 5	c. 7	d. 9	
Q.12 The surface	e area of a cube i	is 216 cm ² . What	is its volume?	

a. 1296 cm^3 b. 648 cm^3 c. $864 \text{ cm}^3 \text{d. } 216 \text{ cm}^3$

Q.13 If $(125)^x = 3125$ then x is equals to-

a.
$$\frac{3}{5}$$

b.
$$\frac{5}{3}$$

c.
$$\frac{1}{4}$$

d.
$$\frac{1}{5}$$

Q.14 By what least number should 9720 be multiplied to get a perfect cube?

a. 15 b. 25 c. 5 Q.15 If $\sqrt[3]{(156 + x)} = 12$ then the value of x is

Q.16 The volume of a cube is $778688 \text{ m}m^3$. Find the measure of its edge.

Q.17 The value of $\frac{(2.3)^3 - 0.027}{(2.3)^2 + 0.69 + 0.09}$ is

Q.18 Evaluate :- $\sqrt[3]{32.768}$

Q.19 If $\sqrt[3]{\frac{x}{729}} + \sqrt[3]{\frac{8x}{729}} + \sqrt[3]{\frac{27x}{5832}} = 1$ then find the value of x.

Q.20 If $\sqrt[3]{\frac{x}{729}} + \sqrt[3]{\frac{27x}{3375}} = 1$ then find the value of x.

Q.21 Evaluate $\sqrt[3]{\frac{4096}{64}} + 2\sqrt[3]{\frac{5832}{216}} - 3\sqrt[3]{\frac{3375}{125}} + 4\sqrt[3]{\frac{1728}{64}}$

Q.22 If a = 2b and b = 4c then find the value of $\sqrt[3]{\frac{a^2}{16bc}}$.

0.23 Three numbers are in the ratio 1:2:3. The sum of their cubes is 98784. Find the numbers.

O.24 Find the cube root of 0.003375.

Q.25 Find the smallest number by which 3087 must be divided so that the quotient is a perfect cube.

Q.26 Evaluate :- $\sqrt[3]{0.008}$ - $\sqrt[3]{-512}$ + $\sqrt[3]{2.197}$

Q.27 By what least number 3600 must be divided to make it a perfect cube?

Q.28 Cube root of a number when divided by the smallest prime number gives square of the smallest prime number. Find the number.