Cubes and Cube Roots

Question 1.
How many digits will be there in the cube root of 46656?
(a) 2
(b) 1
(c) 3
(d) 4

Answer: (a) 2

Question 2.
Ones digit of cube of a number depends on the _____ of the number.
(a) tens digit
(b) ones digit
(c) hundred digit
(d) none of these

Answer: (b) ones digit

Question 3.
What will be the unit digit of the cube root of a number ends with 8?
(a) 2
(b) 8
(c) 4
(d) 6

Answer: (a) 2

Question 4.
The symbol for cube root is _____.
(a) $\sqrt{3}$
(b) $\sqrt[3]{}$

(c) $2\sqrt{3}$
(d) $3\sqrt{3}$

Answer: (b) $\sqrt[3]{}$

Question 5.
The smallest natural number by which 704 must be divided to obtain a perfect cube is
(a) 22
(b) 12
(c) 11
(d) 13

Answer: (c) 11

Question 6.
The numbers 1, 8, 27… are _____.
(a) negative numbers
(b) cube numbers
(c) square numbers
(d) none of these

Answer: (b) cube numbers

Question 7.
If volume of cube is 4913cm^3 then length of side of cube is
(a) 16 cm
(b) 17 cm
(c) 18 cm
(d) 19 cm

Answer: (b) 17 cm

Question 8.
The square of a natural number subtracts from its cube comes 100. The number is _____.
(a) 2
(b) 3
(c) 5
(d) 1

Answer: (c) 5

Question 9.
The value of 5^3 is _____.
(a) 125
(b) 15
(c) 10
(d) 75

Answer: (a) 125

Question 10.
If $(2744)^{\frac{1}{3}}$ = 2p+2, then the value of P is
(a) 3
(b) 6
(c) 2
(d) 8

Answer: (b) 6

Question 11.
Ones place digit in the cube of 5832 is _____.
(a) 5
(b) 7
(c) 2
(d) 8

Answer: (d) 8

Question 12.
Find the cube root of 0.001331.
(a) 0.111
(b) 0.101
(c) 0.11
(d) none of these

Answer: (c) 0.11

Question 13.
If (504 + p) is a perfect cube number, whose cube root is p, then p = _____.

(a) 6
(b) 4
(c) 2
(d) 8

Answer: (d) 8

Question 14.
The cube root of the $216 \times (-32) \times 54$ is _____
(a) -36
(b) -72
(c) -48
(d) none of these

Answer: (b) -72

Question 15.
The cube of an odd number is always _____.
(a) odd number
(b) even number
(c) prime number
(d) none of these

Answer: (a) odd number

Question 16.
Express 6^3 as the sum of odd numbers.
(a) 31 + 33 + 35 + 37 + 39 + 41 + 43
(b) 31 + 33 + 35 + 37 + 39 + 41
(c) 31 + 33 + 35 + 37 + 39 + 41 + 43 + 45
(d) none of these

Answer: (b) 31 + 33 + 35 + 37 + 39 + 41

Question 17.
The cube of 23 is _____
(a) 2304
(b) 23
(c) 12167
(d) 529

Answer: (c) 12167

Question 18.
What will be the unit digit of the cube of a number ending with 6?
(a) 4
(b) 6
(c) 2
(d) 8

Answer: (b) 6

Question 19.
The expansion of a^3 is _____.
(a) 3 × a
(b) a + a + a
(c) 3 × 3 × 3
(d) a × a × a

Answer: (d) a × a × a

Question 20.
A natural number is said to be a perfect cube, if it is the cube of some _____.
(a) natural number
(b) square number
(c) cube number
(d) cuboid number

Answer: (a) natural number

Question 21.
Each prime factor appears _____ times in its cube?
(a) 2
(b) 3
(c) 1
(d) 4

Answer: (b) 3

Question 22.
What is the cube of double of ‘a’?
(a) $16a^3$
(b) 2a
(c) $8a^3$
(d) $4a^2$

Answer: (c) $8a^3$
