

## ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	Any whole number can be written as a product of factors which are	A. Odd numbers B. Prime number C. Rational number D. Even number
2	Question Image	
3	The square roots of negative numbers is called	A. Real no B. Complex no C. Positive no D. Negative no
4	Every real number is	A. a positive integer B. a rational number C. a negative integer D. a complex number
5	Total number of subsets that can be formed out of the set {a,b,c} is	A. 1 B. 4 C. 8 D. 12
6	The additive inverse of $\frac{2}{3}$ is	A. $\frac{3}{2}$ B. $-\frac{2}{3}$ C. $-\frac{3}{2}$ D. 0
7	For each real number, there is a number which is its	A. Negative B. Possitive C. Opposite D. Similar
8	$\frac{1}{3}$ is a decimal	A. Recurring B. Terminating C. Non-terminating D. None of the above
9	Geometrically the modulus of a complex number represents its distance from the	A. Point (1,0) B. Point (0,1) C. Point (1,1) D. Point (0,0)
10	Which of the following has the same value as $i^{113}$ ?	A. i B. -1 C. -i D. 1
11	$a > b, b > c \Rightarrow a > c$ is a	A. Multiplicative property B. Additive property C. Trichotomy property D. Transitive property of inequality
12	In R the number of identity element w.r.t '+' is	A. One B. Two C. Three D. Four
13	In R, the additive identity is	A. 0 B. 1 C. -1 D. None
14	The set {1, 2, 3, 4, ...} is called	A. Set of Natural numbers B. Set of whole numbers C. Set of rational number D. Set of irrational numbers
15	Question Image	A. Trichotomy property B. Additive property of inequality C. Transitive property D. Multiplicative property
16	A prime number can be a factor of a square only if it occurs in the square at least	A. Once B. Thirce C. Twice

		D. None of these
17	24 can be written as a product of	A. Odd factors B. Even factors C. Whole factors D. Prime factors
18	$\forall x, y \in \mathbb{R}$ , either $x = y$ or $x > y$ or $x < y$ is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
19		A. additive property B. multiplicative property C. additive identity D. multiplicative identity
20	$\sqrt{x} = \text{\_\_\_\_\_\_}$ if is a prime number	A. Rational no B. Natural no C. Irrational no D. Complex no