

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	In $(x + iy) x$ is the known as	A. Imaginary part of complex number B. Real part of complex number C. Complex number D. None of above
2	In set builder notation the set $\{0, 1, 2, \dots, 100\}$ can be written as	A. $\{x / x \in \mathbb{B} \wedge x \leq 100\}$ B. $\{x / x \in \mathbb{W} \wedge x \leq 101\}$ C. $\{x / x \in \mathbb{Z} \wedge x \leq 101\}$ D. The set of first 100 whole numbers
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Reflexive property B. Symmetric property C. Cancellations property w.r.t. addition D. Transitive property
4	The set of rational numbers between 0 and 1 is	A. Finite B. Null set C. Infinite D. None of these
5	$i^2 =$	A. 1 B. 2 C. -1 D. 0
6	The multiplicative inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
7	$4/\sqrt{49}$ is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number
8	The set $\{0, -1\}$ hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
9	$\forall a, b, c \in \mathbb{R}, a > b \wedge b > c \Rightarrow a > c$ is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A prime number B. An integer C. A whole number D. An irrational number
12	The symbol of irrational is	A. W B. N C. Q D. Q'
13	The set of natural no. is closed under	A. multiplication B. subtraction C. difference D. division
14	The additive inverse of 0 is	A. 1 B. -1 C. 0 D. Does not exist
15	$1/3$ is _____	A. A prime number B. An integer C. A rational number D. An irrational number

16	6 is	A. A prime integer B. An irrational number C. A rational number D. An odd integer
17	$i^{101} =$	A. i B. i^2 C. $-i$ D. -1
18	Total number of subsets that can be formed out of the set $\{a,b,c\}$ is	A. 1 B. 4 C. 8 D. 12
19	Question Image <input type="text"/>	
20	Question Image <input type="text"/>	A. 15 B. $15i$ C. $-15i$ D. -15