

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Rule of quotient of fraction B. Golden rule of fraction C. Rule for product of fraction D. Principle for equality of fraction
2	$\forall x, y \in \mathbb{R}$, either $x = y$ or $x > y$ or $x < y$ is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
3	The set $\{1,2,3,4,\dots\}$ is called	A. Set of natural numbers B. Set of whole numbers C. Set of rational number D. Set of irrational numbers
4	Which element is the additive inverse of (a,b) in Complex numbers	A. $(a,0)$ B. $(0,b)$ C. (a,b) D. $(-a,-b)$
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplication identity
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 15 B. $15i$ C. $-15i$ D. -15
8	The multiplicative inverse of $1 - 2i$ is	
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. None of these
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Rational B. Irrational C. Even D. Odd
11	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $ Z_1 - Z_2 = ?$	
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A positive integer B. A negative integer C. A natural number D. An irrational number
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Trichotomy property B. Additive property of inequality C. Transitive property D. Multiplicative property
16	π is _____	A. A complex number B. A rational number C. A natural number D. An irrational number
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	B. 1 C. -1
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. real number B. complex number C. rational number D. irrational number
19	The value of x , and y , when $(x + iy)^2 = 5 + 4i$	A. $X = 2, y = -1$ B. $X = -2, y = 1$ C. $X = 2, y = -1$ D. $X = -2, y = 1$

D. $x = z, y = z$

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$\forall a, b, c \in \mathbb{R}, a > b \wedge b > c \Rightarrow a > c$ is

A. Trichotomy property

B. Transitive property

C. Symmetric property

D. Additive property