

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	What is the conjugate of $-7 - 2i$?	A. $-7 + 2i$ B. $7 + 2i$ C. $7 - 2i$ D. $\sqrt{53}$
2	If $4 > b$ or $a < b$ than $a = b$ is a	A. Additive property B. Transitive property C. Trichotomy property of inequality D. None of above
3	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $ Z_1 - Z_2 = ?$	
4	$i^{101} =$	A. i B. $i^{>2}$ C. $-i$ D. -1
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Multiplication property B. Additive property C. Trichotomy property D. Transitive property of inequality
6	$(a-1)^{-1} =$	A. $a-1$ B. a C. $-a$ D. None of above
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
8	In \mathbb{R} the number of identity element w.r.t '+' is	A. One B. Two C. Three D. Four
9	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
10	If in a set of real no a is additive identity then	A. $a+a = 2a$ B. $a+a = 1$ C. $a+a = 0$ D. None of these
11	$1/3$ is _____	A. A prime number B. An integer C. A rational number D. An irrational number
12	The square root of $2i - 20i$ is	A. $\pm(5 - 2i)$ B. $\pm(5 + 2i)$ C. $(5 - 2i)$ D. None of these
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. x C. y
14	If $z_1 = \sqrt{-36}$, $z_2 = \sqrt{-25}$, $z_3 = \sqrt{-16}$ then	A. 15 B. $15i$ C. $-15i$ D. -15
15	$\forall a, b, c \in \mathbb{R}$, $a > b \wedge b > c \Rightarrow a > c$ is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
16	If $A = \{x / x \in \mathbb{R} \wedge x^2 - 16 = 0\}$ then $A =$	A. $-x$ B. Infinite set C. Φ D. $\{-4, 4\}$
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	

18

Question Image

19

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)

20

Question Image

- A. Reflexive property
- B. Symmetric property
- C. Transitive property
- D. Additive property