

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	$i^2 =$	A. 1 B. 2 C. -1 D. 0
2	The symbol of irrational is	A. W B. N C. Q D. \mathbb{Q}
3	$\forall a \in \mathbb{R} \exists o \in \mathbb{R}$ such that $a + v = 0 + a = a$ is property of	A. Commutative law of addition B. Associative law of addition C. Additive identity D. Additive inverse
4	14 is not a	A. Prime number B. Whole number C. Even number D. Real number
5	Question Image	A. Symmetric property B. Cancellation property w.r.t. multiplication C. Reflexive property D. Transitive property
6	Question Image	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
7	The property used in $-3 < -2 \Rightarrow 0 < 1$	A. Commutative property B. Additive property of inequality C. Additive inverse D. Additive identity
8	Question Image	A. real part of z B. imaginary part of z C. conjugate of z D. modulus of z
9	0 (zero) is	A. An irrational number B. A rational number C. A negative integer D. A positive number
10	Question Image	
11	Question Image	A. are real no B. both are not real C. are imaginary no D. both are imaginary
12	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $ Z_1 - Z_2 = ?$	
13	$(a+bi) - (c+di) =$	A. $(a+b) = (c+d)$ B. $(a+c) + i(b+d)$ C. $(a - c) + (c - d)i$ D. $(a - c) + (b - d)i$
14	A subset of set of complex number whose elements are of the form $(a,0)$ is called	A. Real number B. Complex number C. Rational number D. Irrational number
15	Gooch crucible is made of :	A. Brass. B. Porcelain. C. Bronze. D. Gold.
16	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. $\{x / x \in \mathbb{N} \wedge x \leq 100\}$

D. The set of first 100 whole numbers

17 Every real number is

- A. a positive integer
- B. a rational number
- C. a negative integer
- D. a complex number

18 Question Image

- A. Commutative property of addition
- B. Closure property of addition
- C. Additive inverse
- D. Associative property w.r.t. to addition

19 Question Image

A.

20 Question Image

D. None of these