

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 15 B. 15 i C. -15 i D. -15
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	$3.5+5.4=5.4+3.5 =8.9$ this property of addition is called	A. additive identity B. associative property C. commulative property D. closure property
4	$\sqrt{2} + \sqrt{3} + \sqrt{5} = (\sqrt{2} + \sqrt{3} + \sqrt{5})$: this property is called	A. associative property w.r.t addition B. commutative property C. Closure property w.r.t addition D. Additive identity
5	$\forall a, b \in \mathbb{R}, ab = ba$ is a	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplicative identity
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
7	$(7, 9) + (3, -5) =$	A. (4, 4) B. (10, 4) C. (9, -5) D. (7, 3)
8	If P is a whole number greater than 1, which has only P and 1 are factors. Then P is called	A. Whole number B. Prime number C. Even number D. Odd number
9	What is the conjugate of $-6 - i$	A. $-6 + i$ B. $6 + i$ C. $-6 - i$ D. $6 - i$
10	If $Z = (1, 2)$, then $Z^{-1} = ?$	A. (0.2, 0.4) B. (-0.2, 0.4) C. (0.2, -0.4) D. (-0.2, -0.4)
11	The multiplicative inverse of (a,b) is	
12	$\forall a, b, c \in \mathbb{R}, a + c = b + c \Rightarrow a = b$	A. Reflexive property B. Symmetric property C. Cancellations property w.r.t. addition D. Transitive property
13	If $A = \{x / x \in \mathbb{R} \wedge x^2 - 16 = 0\}$ then $A =$	A. $-x$ B. Infinite set C. ϕ D. $\{-4, 4\}$
14	For any real numbers $x, y, xy=0 \Rightarrow$	A. $x \neq 0 \wedge y \neq 0$ B. $x = 0 \wedge \forall y = 0$ C. $x = 0$ D. $y = 0$
15	Every real number is	A. A complex number B. A rational number C. A natural number D. A prime number
16	The identity element with respect to subtraction is	A. 0 B. 1 C. -1 D. Does not exist

17	Question Image	A. Symmetric property B. Cancellation property w.r.t. multiplication C. Reflexive property D. Transitive property
18	The sum of complex number (a,b) and (c,d) is	
19	Question Image	A. are real no B. both are not real C. are imaginary no D. both are imaginary
20	Question Image	A. Multiplication property B. Additive property C. Trichotomy property D. Transitive property of inequality