


ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	The equation $ x + 4 = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
2	Question Image	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
3	The additive inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
4	If $z_1 = (a,b)$, $z_2=(c,d)$, then $z_1 z_2 =$ -----	A. (ac, bd) B. $(ac+bd, ad-bc)$ C. $(ac-bd, ad+bc)$ D. $(ac-bd, ad-bc)$
5	The multiplicative inverse of 4 is	A. -4 B. -1/4 C. 1/4 D. 1
6	Question Image	A. $(a + b)c = ac + bc$ B. $a + b = b + a$ C. $(a + b) + c = a + (b + c)$ D. $a(b + c) = ab + ac$
7	In R the right cancellation property w.r.t. addition is	
8	Every real number is	A. a positive integer B. a rational number C. a negative integer D. a complex number
9	The set of natural no. is closed under	A. multiplication B. subtraction C. difference D. division
10	Question Image	
11	QUQ, =	A. N B. R C. W D. Z
12	Question Image	
13	Question Image	A. are real no B. both are not real C. are imaginary no D. both are imaginary
14	Question Image	A. A positive integer B. A negative integer C. A natural number D. An irrational number
15	Question Image	A. Symmetric property B. Cancellation property w.r.t. multiplication C. Reflexive property D. Transitive property
16	I is not	A. Real number B. Natural number C. Prime Number D. Whole Number
17	$\forall x, y \in R$, either $x = y$ or $x > y$ or $x < y$ is	A. Transitive property B. Reflexive property C. Trichotomy property

C. Transitive property
D. None of these

18 What is the conjugate of $-7 - 2i$?

- A. $-7 + 2i$
B. $7 + 2i$
C. $7 - 2i$
D. $\sqrt{53}$

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

20 If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $|Z_1 - Z_2| = ?$

- A. $\sqrt{5}$
B. $\sqrt{7}$
C. $-1 - 2i$
D. $\sqrt{3}$