

## ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	Every whole number is	A. A real number B. An irrational number C. A prime number D. A negative integer
2	The conjugate of $\sqrt{5}$ <i>i</i> is	A. √5 B√5 i C. i D. 5i
3	The set of positive integers, 0 and negative integers is known as the set of	A. Natural numbers B. Rational numbers C. All integers D. Irrational numbers
4	Question Image	
5	If $z_1 = \sqrt{-36}$ , $z_2 = \sqrt{-25}$ , $z_3 = \sqrt{-16}$ then	A. 15 B. 15i C15i D15
6	The multiplicative inverse of 2/3 is	A. 3/2 B2/3 C3/2 D. 1
7	In R the number of identity elements w.r.t.'.' is	A. One B. Two C. Three D. Four
8	Question Image	B. 1 C1
9	√(-1b) =?	A. b i Bi b C. b2 D. i√b
10	Question Image	
11	The additive inverse of 2/3 is	A. 3/2 B2/3 C3/2 D. 0
12	i <sup>9</sup> =	A. i <sup>2</sup> B1 C. 1 D. i
13	∀a,b ε R, ab = be is a	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplicative identity
14	Some of two real numbers is also a real number , this property is called:	A. Commutative property w.r.t addition B. Closure property w.r.t. addition C. Associative property w.r.t. addition D. Distributive property w.r.t addition
15	Question Image	B. 1 D1
16	Question Image	
17	Question Image	A. real part of z B. imaginary part of z C. conjugate of z D. modulus of z
18	If $Z_1$ = 1 + i, $Z_2$ = 2+3i, then $ Z_2 - Z_1 $ = ?	

9	Question Image	
20		A. Additive property in R B. Multiplication property in R
	Question Image	C. Cancellation property in R
		D. Distribution property in R