

## ECAT (Pre-Eng) Mathematics For Chapter 1 Number System

Sr	Questions	Answers Choice
1	π is	<ul><li>A. A complex number</li><li>B. A rational number</li><li>C. A natural number</li><li>D. An irrational number</li></ul>
2	Question Image	
3	$a.a^{-1} = a^{-1}.a = 1$ is a	A. Commutative law of multiplication     B. Multiplicative identity     C. Associative law of multiplication     D. Multiplicative inverse
4	If $z_1$ = 2 + 6i and $z_2$ = 3 + 7i, then which expression defines the product of $z_1$ and $z_2$ ?	A. 36 + (-32)i B36 + 32i C. 6 + (-11)1 D. 0, +(-12)i
5	If P is a whole number greater than 1, which has only P and I are factors. Then P is called	A. Wholw number B. Prime number C. Even number D. Odd number
6	The square root of 2i - 20i is	A. ±(5 - 2i) B. ±(5+ 2i) C. (5 - 2i) D. None of these
7	3.5+5.4=5.4+3.5 =8.9 this property of addition is called	A. additive identity B. assoclative property C. commulative property D. closure property
8	Union of the sets of rational and irrational numbers is called 6th set of	<ul><li>A. Natural numbers</li><li>B. Real numbers</li><li>C. Whole numbers</li><li>D. Prime numbers</li></ul>
9	If a and b are real numbers then a+b is also real number this law is called	A. associative law of addition     B. closure law of addition     C. Distributive law of addition     D. Commutative law of addition
10	The multiplicative inverse of 4 is	A4 B1/4 C. 1/4 D. 1
11	$\forall$ z $\in$ C, multipliucative is	A. (1,1) B. (1,0) C. (0,1) D. None of these
12	Which of the following has the same value as i <sup>113</sup> ?	A. i B1 Ci D. 1
13	If a is any real number and a = a is called	A. symmetric property B. Trichotomy Properties C. Transitive Property D. Reflexive Properties
14	In R the left cancellation property w.r.t addition is	
		A. z is purely imaginary B. a is any complex number
15	Question Image	C. z is real D. None of these
16	If in a set of real no a is multiplicative identity then	A. a,a = a <sup>2</sup> B. a,a = 1 C. a,a = 0 D. None of these

17	Question Image	A. Rational B. Irrational C. Even D. Odd
18	O is	A. A positive integer B. A negative integer C. A natural number D. An integer
19	1/3 is	A. A prime number B. An integer C. A rational number D. An irrational number
20	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Additive property