


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

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	
2	$i^3 =$	A. -1 B. i C. -i D. 1
3	The negative square root of 9 can be written as:	A. $-\sqrt{9}$ B. $\sqrt{9}$ C. $\sqrt{18}$ D. $-\sqrt{18}$
4	$\forall x, y \in \mathbb{R}$ , either $x = y$ or $x > y$ or $x < y$ is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
5	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
6	$\forall a \in \mathbb{R} \exists o \in \mathbb{R}$ 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
7	The set of rational numbers between 0 and 1 is	A. Finite B. Null set C. Infinite D. None of these
8	$i$ is equal	A. (1, 0) B. (0, 1) C. (1, 1) D. (0, 0)
9	<input type="text" value="Question Image"/>	A. $\langle \text{br} \rangle$
10	Associative law of multiplication	A. $ab = ba$ B. $a(bc) = (ab)c$ C. $a(b+c) = ab + ac$ D. $(a + b)c = ac + bc$
11	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. The set of first 100 whole numbers
12	Name the property used in $1000 \times 1 = 1000$	A. additive inverse B. multiplicative inverse C. additive identity D. multiplicative identity
13	<input type="text" value="Question Image"/>	A. N B. r C. 2r D. <span style="color: green; font-family: 'Times New Roman', serif; font-size: 24px; text-align: center; background-color: #f5f5f5; padding: 2px;">&lt;math&gt;\pi&lt;/math&gt;</span>
14	<input type="text" value="Question Image"/>	A. Associative property of addition B. Associative property of multiplication C. Commutative property of addition D. Commutative property of multiplication
15	<input type="text" value="Question Image"/>	B. 1 D. -1

16	The conjugate of $\sqrt{5} i$ is	A. $\sqrt{5}$ B. $-\sqrt{5} i$ C. $i$ D. $5i$
17	If P is a whole number greater than 1, which has only P and 1 as factors. Then P is called	A. Whole number B. Prime number C. Even number D. Odd number
18	1.4142135... is _____	A. A natural number B. A rational number C. A prime number D. An irrational number
19		
20	$\sqrt{25}$ is a number	A. Rational B. Irrational C. Natural D. Odd