

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

Sr	Questions	Answers Choice
1	Name the property used in $4 \times (5 \times 8) = (4 \times 5) \times 8$	A. Associative property of addition B. Associative property of multiplication C. Additive identity D. Multiplicative identity
2	If $Z_1 = 1 + i$ , $Z_2 = 2 + 3i$ , then $ Z_2 - Z_1  = ?$	
3	The equation $ x + 4  = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
4	Question Image	A. $(a + b)c = a \cdot c + bc$ B. $a + b = b + a$ C. $(a + b) + c = a + (b + c)$ D. $a(b + c) = ab + ac$
5	The additive inverse of 0 is	A. 1 B. -1 C. 0 D. Does not exist
6	The $\sqrt{\quad}$ is used for the	A. Positive square root B. Negative square root C. +ve and -ve square root D. Whole number
7	Question Image	
8	Question Image	A. $\langle br \rangle$
9	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
10	$(a, 0) \times (c, 0) =$	A. $(0, ac)$ B. $(ac, 0)$ C. $(0, 0)$ D. $(a, c)$
11	In polar form of complex number $r =$	
12	Question Image	A. A complex number B. A rational number C. A natural number D. An irrational number
13	Any recurring decimal represents a	A. Irrational no B. Integer C. Rational no D. None of these
14	$i^2 =$	A. 1 B. 2 C. -1 D. 0
15	The square root of every incomplete square is an	A. Rational numbers B. Even numbers C. odd numbers D. Irrational numbers
16	Question Image	
17	The set of natural no. is closed under	A. multiplication B. subtraction C. difference D. division
18	Question Image	

19  $\forall x, y \in \mathbb{R}$  and  $x < 0, y < 0$ , which one is true

- B.  $\bar{xy} = 0$
- C.  $xy > 0$
- D. None of these

20 If in a set of real no  $a$  is additive identity then

- A.  $a+a = 2a$
- B.  $a+a = 1$
- C.  $a+a = 0$
- D. None of these