

## 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. <b>Associative property of multiplication</b> 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. <b><math>x = -2</math></b> 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 $\sqrt{\phantom{x}}$ is used for the	A. Positive square root B. Negative square root C. <b>+ve and -ve square root</b> D. Whole number
7	Question Image	
8	Question Image	A. <b>&lt;br&gt;</b>
9	The set of positive integers, 0 and negative integers is known as the set of	A. Natural numbers B. Rational numbers C. <b>All integers</b> D. Irrational numbers
10	$(a,0) \times (c,0) =$	A. <b><math>(0,ac)</math></b> B. <b><math>(ac,0)</math></b> C. $(0,0)$ D. $(a,c)$
11	In polar form of complex number $r =$	
12	Question Image	A. A complex number B. <b>A rational number</b> C. A natural number D. An irrational number
13	Any recurring decimal represents a	A. Irrational no B. Integer C. <b>Rational no</b> D. None of these
14	$i^2 =$	A. 1 B. 2 C. <b>-1</b> D. 0
15	The square root of every incomplete square is an	A. Rational numbers B. Even numbers C. odd numbers D. <b>Irrational numbers</b>
16	Question Image	
17	The set of natural no. is closed under	A. <b>multiplication</b> B. subtraction C. difference D. division
18	Question Image	A. $xy < 0$

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

B.  $xy = 0$   
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