

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

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C1 D. None of these
2	(a, b) + (-a, -b) =	A. (0,0) B. (a, b) C. (-a, -b) D. (1, 1)
3	The additive inverse of 1 is	A. 1 B1 C. 0 D. Does not exist
4	4/√49 is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number
5	Question Image	A. 15 B. 15 i C15 i D15
6	If $z = (x,y)$ , then $z^- =$	A. (-x,y) B. (x,-y) C. (-x, -y) D. None of these
7	Associative law of multiplication	A. ab - ba B. a(bc) = (ab) c C. a(b + c) = ab +ac D. (a +b)c = ac + bc
8	Question Image	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
9	The square root of 2i - 20i is	A. ±(5 - 2i) B. ±(5+ 2i) C. (5 - 2i) D. None of these
10	$\forall x,y,z \in R \text{ and } z 0, \text{then}$	A. x > y ⇒ xz > yz B. x <y <="" xz="" yz<br="" ⇒="">C. x &lt; y ⇒ xz &gt; yz D. None of these</y>
11	QUQ, =	A. N B. R C. W D. Z
12	The conjugate of $\sqrt{5}$ <i>i</i> is	A. √5 B√5 i C. i D. 5i
13	Question Image	A. Principle of equality of fractions B. Rule for product of fraction C. Rule for quotient of fraction D. Golden rule of fractions
14	Question Image	A. Closure law of addition     B. Closure law of multiplication     C. Commutative law of addition     D. Commutative law of multiplication
15	∀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

6	Question Image	A. (a + b)c = a . c + bc B. a + b = b + a C. (a + b) + c = a + (b + c) D. a(b+c) = ab + ac
7	√23 is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
8	In R the number of identity element w.r.t '+' is	A. One B. Two C. Three D. Four
9	If $Z_1 = 1 + i$ , $Z_2 = 2 + 3i$ , then $ Z_1 - Z_2  = ?$	
0	0.25 is	A. An irrational number B. A natural number C. A prime number D. A rational number