

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

Sr	Questions	Answers Choice
1	Question Image	A. A complex number B. A rational number C. A natural number D. An irrational number
2	Which of the following sets has closure property w.r.t. addition	A. $\{0\}$ B. $\{1\}$ C. $\{0, -1\}$ D. $\{1, -1\}$
3	$i^2 =$	A. 1 B. 2 C. -1 D. 0
4	The set of natural no. is closed under	A. multiplication B. subtraction C. difference D. division
5	2.333.....is a	A. Irrational no B. Complex no C. Rational no D. None of these
6	Question Image	B. 1 D. -1
7	The conjugate of $\sqrt{5}i$ is	A. $\sqrt{5}$ B. $-\sqrt{5}i$ C. i D. $5i$
8	Name the property used in $4.1 + (-4.1) = 0$	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
9	Additive inverse of $-a - b$ is	A. a B. $-a + b$ C. $a - b$ D. $a + b$
10	Multiplicative inverse of 0 is	A. 0 B. 1 C. ± 1 D. Does not exist
11	Question Image	
12	Name the property used in $a(b-c) = ab - ac$	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
13	Question Image	
14	$\sqrt{2}$ is a number	A. Rational B. Irrational C. Even D. Odd
15	$2/9, 5/7 \in \mathbb{R}, (2 \mid 9)(5 \mid 7) = 10/63 \in \mathbb{R}$ this property is called	A. Associative property B. Identity property C. Commutative property D. Closure property w.r.t multiplication
16	Question Image	

A. additive inverse

17	Name the property used in $1000 \times 1 = 1000$	B. multiplicative inverse C. additive identity D. multiplicative identity
18	For any real numbers $x, y, xy=0 \Rightarrow$	A. $x \neq 0 \wedge y \neq 0$ B. $x = 0 \wedge \forall y = 0$ C. $x = 0$ D. $y = 0$
19	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of above
20	Question Image	