

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	Question Image	
2	The equation $ x+4 = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
3	Question Image	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
4	Every real number is	A. a positive integer B. a rational number C. a negative integer D. a complex number
5	Question Image	A. $a = a$ B. $a \leq a$ C. $a \geq a$ D. $a ² \geq a$
6	Name the property used in $4 + 9 = 9 + 4$	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
7	What is the conjugate of $-7 - 2i$?	A. $-7 + 2i$ B. $7 + 2i$ C. $7 - 2i$ D. $\sqrt{53}$
8	For any real numbers $x, y, xy=0 \Rightarrow$	A. $x \neq 0 \wedge y \neq 0$ B. $x = 0 \wedge y = 0$ C. $x = 0$ D. $y = 0$
9	The set $\{1, 2, 3, 4, \dots\}$ is called	A. Set of Natural numbers B. Set of whole numbers C. Set of rational number D. Set of irrational numbers
10	Every whole number is	A. A real number B. An irrational number C. A prime number D. A negative integer
11	$i^9 =$	A. $i ²$ B. -1 C. 1 D. i
12	$\forall a, b, c \in \mathbb{R}, a > b \wedge b > c \Rightarrow a > c$ is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
13	$i^3 =$	A. -1 B. i C. -i D. 1
14	In \mathbb{R} , the multiplicative identity is	A. 0 B. 1 C. -1 D. None
15	A non-terminating, non-recurring decimal represent	A. A natural number B. A rational number C. An irrational number D. A prime number
16	The polar form of complex number $x + iy =$	A. $r \cos \theta + r \sin \theta$ B. $r \cos \theta + i \sin \theta$ C. $\cos \theta + r \sin \theta$ D. $r \cos \theta + i r \sin \theta$

$$D. i \cos \theta + i \sin \theta$$

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Question Image

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1/3 is a decimal

- A. Recurring
- B. Terminating
- C. Non-terminating
- D. None of the above

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 $\sqrt{x} = \text{_____}$ if is a prime number

- A. Rational no
- B. Natural no
- C. Irrational no
- D. Complex no

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Question Image