

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	Question Image	
2	2.333....is a	A. Irrational no B. Complex no C. Rational no D. None of these
3	In R, the additive inverse of a is	A. 0 B. 1 C. -a D. 1/a
4	Question Image	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t. to addition
5	Which element is the additive inverse of (a,b) in Complex numbers	A. (a,0) B. (0,b) C. (a,b) D. (-a,-b)
6	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Additive property
7	$\forall a,b, c \in R \quad ac = bc \Rightarrow a = b, c \neq 0$ is a	A. Symmetric property B. Cancellation property w.r.t multiplication C. Reflexive property D. Transitive property
8	Question Image	
9	Question Image	
10	Total number of subsets that can be formed out of the set {a,b,c} is	A. 1 B. 4 C. 8 D. 12
11	If $4 > b$ or $a < b$ than $a = b$ is a	A. Additive property B. Transitive property C. Trichotomy property of inequality D. None of above
12	Question Image	A. 0 B. 1 C. -1 D. None of these
13	Name the property used in $100 + 0 = 100$	A. Additive inverse B. Multiplicative inverse C. Additive identity D. Multiplicative identity
14	In polar form of complex number r =	
15	Any whole number can be written as a product of factors which are	A. Odd numbers B. Prime number C. Rational number D. Even number
16	1.4142135... is _____	A. A natural number B. A rational number C. A prime number D. An irrational number
17	If P is a whole number greater than 1, which has only P and 1 are factors. Then P is called	A. Wholw number B. Prime number C. Even number D. Odd number

18

Question Image

- A. $a = a$
- B. $a < a$
- C. $a > a$
- D. $a^2 \geq a$

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$a > b \Rightarrow a + c > b + c$ is known as

- A. Trichotomy property
- B. Additive property of inequality
- C. Transitive property
- D. Multiplicative property

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$(a, b) + (-a, -b) =$

- A. $(0, 0)$
- B. (a, b)
- C. $(-a, -b)$
- D. $(1, 1)$