

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

| Qr. | Questions | Anguara Chaica |
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| Sr | Questions | Answers Choice |
| 1 | Question Image | A. are real no B. both are not real C. are imaginary no D. both are imaginary |
| 2 | Question Image | |
| 3 | If a set S contains n elements then P (S) has number of elements | A. 2 ⁿ B. 2 ⁿ² C. 2.n D. n ² |
| 4 | Every natural number is | A. A prime number B. An irrational number C. An integer D. An even number |
| 5 | Question Image | A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t. to addition |
| 6 | The $\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$ | A. Positive square root B. Negative square root C. +ve and -ve square root D. Whole number |
| 7 | The value of x and y when $(x + iy)2 = 5 - 4i$ | A. x = 2, y = -1 B. x = -2, y = 1 C. x = 2, y = -i D. x = 2, y = 2 |
| 8 | Question Image | A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity |
| 9 | Question Image | |
| 10 | j ² = | A. 1 B. 2 C1 D. 0 |
| 11 | If $z_1 = \sqrt{-36}$, $z_2 = \sqrt{-25}$, $z_3 = \sqrt{-16}$ then | A. 15 B. 15i C15i D15 |
| 12 | Question Image | A. 1 Bi C. i D. 0 |
| 13 | Question Image | A. A rational number B. An irrational number C. An odd number D. A prime number |
| 14 | Name the property used in 1000 x 1 = 1000 | A. additive inverse B. multiplicative inverse C. additive identity D. multiplicative identity |
| 15 | Question Image | A. N B. r C. 2r D. |

| 16 | The multiplicative inverse of 1 - 2i is | |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 17 | ∀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 |
| 18 | Every whole number is | A. A real number B. An irrational number C. A prime number D. A negative integer |
| 19 | If ∀a,bεR,then a +bε R is a property | A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity |
| 20 | A prime number can be a factor of a square only if it occurs in the square at least | A. Once B. Thirce C. Twice D. None of these |