

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

| Cr. | Questions | Answers Choice |
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| Sr | Questions | |
| 1 | Question Image | A. 15 B. 15 i C15 i D15 |
| 2 | Question Image | A. A rational number B. A natural number C. An irrational number D. An integer |
| 3 | Question Image | A. Reflexive property B. Symmetric property C. Cancellations property w.r.t. addition D. Transitive property |
| 4 | $(a,0) \times (c,0) =$ | A. (0,ac) B. (ac,0) C. (0,0) D. (a,c) |
| 5 | Question Image | A. real part of z B. imaginary part of z C. conjugate of z D. modulus of z |
| 6 | Question Image | A. 0 B. 1 C1 D. None of these |
| 7 | 3.5+5.4=5.4+3.5 =8.9 this property of addition is called | A. additive identity B. assoclative property C. commulative property D. closure property |
| 8 | Question Image | A. Additive property in R B. Multiplication property in R C. Cancellation property in R D. Distribution property in R |
| 9 | Name the property used in 100 + 0 = 100 | A. Additive inverse B. Multiplicative inverse C. Additive identity D. Multiplicative identity |
| 10 | The set of rationals numbers between 0 and I is | A. Finite B. Null set C. Infinite D. None of these |
| 11 | $\forall x,y \in R$ and $x < 0$, $y < 0$, which one is true | A. xy < o B. xy = o C. xy > o D. None of these |
| 12 | For any real numbers x,y,xy=o ⇒ | A. $x \neq 0 \land y \neq 0$ B. $x = 0 & \text{nbsp}; \forall y = 0$ C. $x = 0$ D. $y = 0$ |
| 13 | Geometrically the modulus of a complex number represents its distance from the | A. Point (1,0) B. Point (0,1) C. Point (1,1) D. Point (0,0) |
| 14 | Question Image | |
| 15 | If z_1 = 2 + 6i and z_2 = 3 + 7i, then which expression defines the product of z_1 and z_2 ? | A. 36 + (-32)i B36 + 32i C. 6 + (-11)1 D. 0, +(-12)i |
| | | A. {x / xε B Λ x ≤ 100} |

| 16 | In set builder notation the set {0,1,2,100} can be written as | B. $\{x \mid x \in W\ \land x\ \< 101\}$ C. $\{x \mid x \in Z \land x\ \< 101\}$ D. The set of first 100 whole numbers |
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| 17 | ∀x,y∈R and x> 0 , y>0, if x > y | D. None of these |
| 18 | i is equal | A. (1, 0) B. (0, 1) C. (1, 1) D. (0, 0) |
| 19 | The multiplicative inverse of 2/3 is | A. 3/2 B2/3 C3/2 D. 1 |
| 20 | Question Image | A. a = a B. a < a C. a > a D. a ² = a |