## ECAT Mathematics MCQ's Test For Full Book

| Sr | Questions | Answers Choice |
|----|-----------|----------------|
| 1 | In R, the multiplicative inverse of a is | A. 0 <br> B. 1 <br> C. -a <br> D. 1/a |
| 2 | Every prime number is also | A. Rational number <br> B. Even number <br> C. Irrational number <br> D. Multiple of two numbers |
| 3 | Question Image | A. [0, 0, 0] <br> B. [1, 0, 0] <br> C. [0, 1, 0] <br> D. [0, 0, 1] |
| 4 | Question Image | A. n(A) <br> B. n(B) <br> C. 0 <br> D. 1 |
| 5 | Geometrically, the modulus of a complex number represents its distance from the | A. Point (1, 0) <br> B. Point (0, 1) <br> C. Point (1, 1) <br> D. Point (0, 0) |
| 6 | Question Image | |
| 7 | General solution of $\tan 5\theta = \cot 2\theta$ is | |
| 8 | The key for opening a door is in a bunch of 10 keys. A man attempts to open the door by trying the keys at random discarding the wrong key. The probability that the door is opened in the 5th trial is | A. 1 / 10 <br> B. 2 / 10 <br> C. 3 / 10 <br> D. 4 / 10 |
| 9 | If $a_1$, r and $a_n$ are the first term, common ratio and the nth term respectively of a G. P. then $a_n$= | A. $a_1 r^n$ <br> B. $a_1 r^{n-1}$ <br> C. $a_1 r^{n+1}$ <br> D. $a_1 r$ |
| 10 | Question Image | |
| 11 | If $\cos(2 \sin^{-1} x) = 1/9$ , then what is the value of x? | A. 1/3 <br> B. -2/3 <br> C. 2/3 <br> D. 2/3 , -2/3 |
| 12 | Question Image | A. -3 -2i <br> B. 3 +2i <br> C. 1 + 2i <br> D. 1 - 2i |
| 13 | Question Image | A. similar images <br> B. distinct images <br> C. similar range <br> D. option a and c |
| 14 | The domain of $y = \cos^{-1} x$ is | A. -∞ < x < ∞ <br> B. -1≤ x≤ 1 <br> C. x≤ -1 or x ≥ 1 <br> D. None of these |
| 15 | The liner equation ax + by = c is called _____ of the inequality ax +by > c. | A. Associated equation <br> B. Non-associated equation <br> C. disjoint equation <br> D. Feasible equation |
| 16 | Question Image | A. Rational <br> B. Irrational <br> C. Natural <br> D. Odd |
| 17 | Question Image | A. A.P. <br> B. G.P. <br> C. H.P. |

| 18 | The point (1,3) is one solution of | A. 3x + 5y &gt; 29<br>B. 3x + 5y &lt; 7<br>C. x + 2y &lt; 4<br>D. x + 4y &gt; 3 |
|----|-----------------------------------|-------------------------------------------|
| 19 | While writing his books on geometry, Euelid used | A. Inductive method<br>B. Deductive method<br>C. Implication<br>D. proposition |
| 20 | Question Image | A. 7<br>B. 5<br>C. 6<br>D. None of these |