# ECAT Mathematics MCQ's Test For Full Book

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | If one root of the equation $ix^2 - 2(i + 1)x + (2 - i) = 0$ is $2 - i$, then the other root is | A. -i<br>B. 2 + i<br>C. i<br>D. 2 - i |
| 2 | Question Image | A. 0<br>B. 1<br>D. -1 |
| 3 | The sum of n terms of a series is denoted by | A. d<br>B. n<br>C. S<sub>n</sub><br>D. a<sub>n</sub> |
| 4 | If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is | A. an ellipse<br>B. a circle<br>C. a hyperbola<br>D. a parabola |
| 5 | Which symbolic notation represent unary operation ? | A. -<br>B. ∨<br>C. ∧<br>D. ⇔ |
| 6 | If A is an event then which of the following is true | A. P(A)<0<br>B. 0≥P(A)≤1<br>C. P(A)>0<br>D. None |
| 7 | Question Image | C. ln f(x) + c<br>D. f(x) - c |
| 8 | The set { {a, b} } is | A. Infinite set<br>B. Singleton set<br>C. Two points set<br>D. Empty set |
| 9 | Question Image | A. 3, -3, 11<br>B. 3, 3, 11<br>C. -3, 3, -11<br>D. -3, -3, 11 |
| 10 | If $f(x) = x^2 - x$ then f(-2) is | A. 4<br>B. 6<br>C. 2<br>D. 0 |
| 11 | A second degree equation in which coefficients of $x^2$ and $y^2$ are equal and there is no product term xy represents | A. a parabola<br>B. a circle<br>C. an ellipse<br>D. a pair of lines |
| 12 | $i^2$ = | A. 1<br>B. 2<br>C. -1<br>D. 0 |
| 13 | (A ∩ B)c = | A. A∩ B<br>B. (A ∪ B)c<br>C. Ac∪Bc<br>D. Φ |
| 14 | Question Image | |
| 15 | Question Image | A. Symmetric property<br>B. Cancellation property w.r.t. multiplication<br>C. Reflexive property<br>D. Transitive property |
| 16 | Roots of the equation $2x^2 - 7x + 3 = 0$ are | A. Rational<br>B. Irrational<br>C. Complex<br>D. None of these |

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| 17 | The angle between the vectors $\underline{u}$ =2$\underline{i}$ - $\underline{i}$+ $\underline{k}$ and $\underline{v}$ = -$\underline{i}$ +$\underline{i}$ is: | A. 3π/2<br>B. 2π/3<br>C. 5π/6<br>D. π/3 |
| 18 | Matrix multiplication is | A. Commutative<br>B. Not commutative<br>C. Not associative<br>D. Not distributive |
| 19 | The set of natural is a semi group w.r.t | A. Addition<br>B. Division<br>C. Subtraction<br>D. None of these |
| 20 | Such fraction which can not be written in the form ofp⁄q where p,q and q≠ 0,such fractions are called. | A. Fractinal numbers<br>B. Rational Numbers<br>C. Even Numbers<br>D. Whole Numbers |