

## 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	Ai B. 2 + i C. i D. 2 - i
2	A conditional "if p then q" is denoted by	
3	An integral of 1/x dx is:	A. 1/x <sup>2</sup> B. 1/-x <sup>2</sup> C. 1/lnx D. lnx
4	If a statement $S(n)$ is true for $n = i$ where $i$ is some natural number and the truth of $S(n)$ for $n = k > i$ implies the truth of $S(n)$ for $n = k + 1$ then $S(n)$ is true for all positive integers	
5	2x <sup>3</sup> + 3x + 9 is a	A. Polynomial of degree 3 B. Quadratic equation C. Cubic equation D. Polynomial of degree 2
6	Question Image	D. none of these
7	The function $f\{(x, y) \mid y = ax^2 + bx + c\}$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
8	Question Image	D. none of these
9	Question Image	
10	If $Z_1 = 1 + i$ , $Z_2 = 2 + 3i$ , then $ Z_1 - Z_2  = ?$	A. √5 B. √7 C1-2i D. √3
11	$p(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree	A. 1 B. 2 C. 3 D. 4
12	Question Image	A. An upper triangular matrix B. A lower triangular matrix C. A diagonal matrix D. A null matrix
13	If no two elements of ordered pairs of a function from A onto are the same, then it is called.	A. Surjective B. Injuctive C. Bijective D. on to
14	The minimum value of the quadratic function $f(x) = x^2 + 6x - 2$ , is	A. 11 B. 6 C11 D. 13
15	u,v,wand u x (v.w) are	A. Equal B. Parallel C. Additive immense of each other D. Meaningless
16	$(a,0) \times (c,0) =$	A. (0,ac) B. (ac, 0) C. (0,0) D. (a, c)
		A. A(

A. A(<span style="color: rgb(34, 34, 34); font-family: &quot; Times New Roman&quot;; font-size: 24px; textalign: center; background-color: rgb(255, 255, 224);"><i>></span>) - A(<span style="color: rgb(34, 34, 34); font-family: &quot; Times New Roman&quot;; font-size: 24 and to 12 and to 13 and to 13 and to 14 and to 14 and to 14 and to 15 and

17	Question Image	size: ∠4px; text-align: center; background-color: rgb(255, 255, 248);"> <i>β</i> >/i> <i>β</i> >/i> <i>span style="font-family: " Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);"&gt;<i>α<i>α<i>α<i>α<i>α<i>α<i>α<i>α<i>α<i></i></i></i></i></i></i></i></i></i></i></i>
18	Question Image	A. 1/x Bx C. 2x D. 0.5 x
19	aquantity is one that possesses both magnitude and direction.	A. Scalar B. Vector C. Segment D. None of these
20	<i>i</i> is equal	A. (1, 0) B. (0, 1) C. (1, 1) D. (0, 0)