


ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	$x = 1$ is in the solution of the inequality	A. $x + 1 > 0$ B. $x - 2 > 0$ C. $3x - 1 < 0$ D. $x + 2 < 0$
3	If the roots of $ax^2 + bx + c = 0$ are equal in magnitude but opposite in sign, then	A. $a = 0$ B. $b = 0$ C. $c = 0$ D. None of these
4	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
5	A function f from A to B can be written as	
6	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
7	The solution set of $\sin x + \cos x = 0$ is	
8	5 unbiased coins are tossed simultaneously. The probability of getting at least one head is	A. $1 / 32$ B. $31 / 32$ C. $1 / 16$ D. None of these
9	The value of k ($k > 0$) for which the equation $x^2 + kx + 64 = 0$ and $x^2 - 8x + k = 0$ both will have real roots is	A. 8 B. -16 C. -64 D. 16
10	$4/\sqrt{49}$ is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number
11	In \mathbb{R} , the additive identity is	A. 0 B. 1 C. -1 D. None
12	If $f(x) = -x^2$ then $f(-2)$ is	A. -2 B. 2 C. -4 D. 4
13	Question Image	
14	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. $1 / 10$ B. $2 / 10$ C. $3 / 10$ D. $4 / 10$
15	The real numbers which satisfy an inequality form its	A. solution B. coefficient C. domain D. range
16	2π is the period of	A. $\sin x$ B. $\tan x$ C. $\cot x$ D. all circular function
17	The vertex of the cone is also called	A. nappes B. axis C. rulings D. apex
		A. Differential equation

- 18 An equation in which at least one term contains dy/dx , d^2y/dx^2 etc, is called.
- B. Initial condition
C. General solution
D. Singular equation
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- 19 Write the first four terms of the sequence if $a_n = (-1)^n n^2$
- A. -1, 4, -9, 16
B. 1, -4, 9, 16
C. 1, 4, 9, 16
D. None of these
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- 20 
- A. 2
B. 7
C. 8
D. 12
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