

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$2^{2x} - 3 \cdot 2^{x+1} + 32 = 0$ is gives value of x	A. (3,4) B. (8,4) C. (2,3) D. (5,9)
2	$(x + 3)(x + 4) = x^2 + 7x + 12$ is _____	A. Quadratic equation B. Linear equation C. Cubic equation D. Identity
3	A matrix in which the number of rows is not equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
4	The minimum value of the quadratic function $f(x) = 5x^2 - 11x$, is	A. -11 B. 6 C. -7 D. 7
5	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
6	Question Image	A. a = 2, b = 3 B. a = 3, b = 2 C. a = 2, b = 1, 2 D. a = 3, b = 3
7	$\sqrt{-1b} = ?$	A. b i B. -i b C. b ² D. i√b
8	Question Image	A. $A^2 - 5A + 7I = 1$ B. $2A^2 - 3A + 7I = 0$ C. $A^2 - 5A + I = 0$ D. $A^2 - 5A + 7I = 0$
9	$w^4 =$ _____	A. 0 B. 1 C. w D. w^2
10	8 . 7 . 6 . 5 in factorial form is	
11	Question Image	
12	Question Image	A. $2x - 3x + c$ C. $x^2 - 3x + c$
13	If no two elements of ordered pairs of a function from A onto are the same, then it is called.	A. Surjective B. Injunctive C. Bijective D. on to
14	The medians of a triangle are:	A. Collinear B. Concurrent C. Perpendicular D. zero
15	The number of different ways of describing a set is	A. One B. Two C. Three D. Four
16	Root of the equation $3^{x-1} + 3^{1-x} =$ is	A. 2 B. 1 C. 0 D. -1
17	Question Image	

18	In \mathbb{R} , the additive inverse of a is	A. a B. 1 C. $-a$ D. $1/a$
19		A. Symmetric B. Skew-symmetric C. Hermitian D. Skew hermitian
20	The angle of elevation of a tower from a point A due south of it is x and from a point B due east of A is y . If $AB = 1$, then the height h of the tower is given by	