

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The set of ordered pairs (x,y) such that $ax + by < c$, and (x,y) such that $ax + by > 0$, are called	A. Half planes B. Boundary C. Linear Inequalities D. Feasible regions
2	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. Imaginary B. Rational C. Irrational D. Real numbers
3	The order of the differential equation of all conics whose axes coincide with the axes of co-ordinates is	A. 2 B. 3 C. 4 D. 1
4	If $a(p + q)^2 + bpq + c = 0$ and $a(p + r)^2 + 2bpr + c = 0$, then qr equals	A. $\frac{p^2 + c/a}{a}$ B. $\frac{p^2 + c/a}{a/c}$ C. $\frac{p^2 + c/a}{c/a}$ D. $\frac{p^2 + c/a}{-c/a}$
5	Area of inscribed circle is	A. πR^2 B. πr^2 C. πr^2 D. πr^2
6	The minimum value of the function $f(x) = x^2 - x - 2$ is.	A. -9/2 B. -1 C. -9/4 D. 0
7	The set $\{1, -1, i, -i\}$ form a group under	A. Addition B. Multiplication C. Subtraction D. None
8	The points (0,-1), (2,1), (0,3) and (-2,1) are the corner of:	A. Square B. rhombus C. Parallelogram D. rectangle
9	The additive inverse of a matrix A is	D. None of these
10	$\cot \theta = \sin 2\theta$ if $\theta =$	
11	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
12	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 3×2 B. 2×3 C. 3×3 D. 2×2
13	$f(x) = x $ is a/an	A. Injective function B. Bijective function C. Surjective function D. Implicit function
14	The synthetic division method is only used to divide a polynomial by	A. quadratic equation B. binomial C. linear equation D. monomial
15	A triangle which is not right is called an _____ triangle	A. Acute B. Obtuse C. Oblique D. None of these
16	Arithmetic mean between a and b is	
17	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
18	The general term of the A.P. is	A. $a + (n - 1)d$ B. $n + (a - 1)d$ C. $d + (n - 1)a$ D. None of these

19 The symbol \exists stand for

- A. Such that
- B. There exist
- C. For all
- D. Belongs to

20 The domain of the principle cos function is
