

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$3/2$ is	A. An irrational number B. Whole number C. A positive integer D. A rational number
2	The point _____ is in the solution of the inequality $2x - 3y < 4$	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
3	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is	A. an ellipse B. a circle C. a hyperbola D. a parabola
4	Question Image	
5	Minor of an element a_{ij} is denoted by	A. M_{ij} B. A_{ij} C. $ A $ D. None of these
6	The set X is	A. Proper Subset of X B. Not A subset of X C. Improper Subset of X D. None of these
7	If a polynomial $p(x)$ is divided by $x-c$, then the remainder is	A. $p(x)$ B. $x-c$ C. c D. $P(c)$
8	Question Image	A. From an empty set B. 1 C. 2 D. >2
9	If for the matrix $A, A^5 = 1$, then $A^{-1} =$	A. A^2 B. A^3 C. A D. None of above
10	Question Image	
11	Question Image	D. none of these
12	Question Image	
13	Question Image	A. $a \sec(ax + b) + c$ B. $-a \sec(ax + b) + c$
14	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
15	If $a > 0, b > 0, c > 0$, then the roots of the equation $ax^2 + bx + c = 0$ are	A. Real and negative B. Non-real with negative real parts C. Real and positive D. Nothing can be said
16	H.M. between 3 and 7 is	A. 1, 0, 0 B. 0, 1, 0
17	The direction cosines of y-axis are	C. 0, 0, 1 D. 1, 1, 1
18	Question Image	
19	$a_n - a_{n-1}, \forall n \in \mathbb{N} \wedge n > 1$ in an A.P is called	A. Common difference B. nth term C. Common ratio

D. None of these

20

Question Image

A. $\frac{\pi}{4}$

B. $\frac{\pi}{6}$

C. $\frac{\pi}{3}$

D. 0