

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The symbol \exists stand for	A. Such that B. This implies that C. For all D. There exist
2	Question Image	A. images B. pre-images C. constants D. none of these
3	(1,0) is in the solution of the inequality	A. $3x + 2y > 8$ B. $2x - 3y < 4$ C. $2x + 3y > 3$ D. $x - 2y < -5$
4	A matrix in which the number of rows is equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
5	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction D. None of these
6	Question Image	D. all
7	Question Image	A. additive property B. multiplicative property C. additive inverse D. additive identity
8	$\mathbb{Q} \cup \mathbb{Q} =$	A. \mathbb{N} B. \mathbb{R} C. \mathbb{W} D. \mathbb{Z}
9	The minimum value of the quadratic function $f(x) = 5x^2 - 11$, is	A. -11 B. 6 C. -7 D. 7
10	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
11	Question Image	
12	If the equation $x^2 + 2x - 3 = 0$ and $x^2 + 3x - k = 0$ have a common root then the non - zero value of k is	A. 1 B. 3 C. 2 D. 4
13	If $f(x) = \tan x$ then $f(0)$ is	A. 0 B. 1 C. 1/2
14	The consecutive terms of a progressions are 30, 24, 20. The next term of the progression is	
15	A conjunction is considered to be true only if both its components are	A. False B. Equivalent C. Equal D. True
16	Question Image	
17	Question Image	D. all are correct
18	Question Image	
19	If $P = \{x/x = p/q \text{ where } p, q \in \mathbb{Z} \text{ and } q \neq 0\}$, then P is the set of	A. Irrational numbers B. Even numbers C. Rational numbers

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Question Image

- A. $2^{2-n} - 1$
- B. $1 - 2^{-n}$
- C. $n + 2^{-n} - 1$
- D. $2^n - 1$