

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If A and B are two sets then any subset R of A x B is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
2	A _____ divides the plane into left and right half planes.	A. Vertical line B. Horizontal line C. Non vertical line D. Inequality
3	Roots of the equation $x^2 - x = 2$ are	A. {2, -1} B. {1, 0} C. {2, 1} D. {-2, 1}
4	for $n \in \mathbb{N}$, $3^{2n} + 7$ is divisible by	A. 7 B. 8 C. 9 D. 10
5	The number of permutation that can be formed from the letters of the word OBJECT is	A. 700 B. 600 C. 720 D. 620
6	<input type="text" value="Question Image"/>	A. direction ratios B. direction cosines C. direction angles D. none of these
7	<input type="text" value="Question Image"/>	A.
8	In the function $f: A \rightarrow B$, the elements of a are called	A. Images B. Pre-images C. ranges D. Parameters
9	$\sin^{-1}(-x) =$	A. $\cos^{-1} \frac{1}{x}$ B. $-\sin^{-1} X$ C. $\cot^{-1} X$ D. None of these
10	<input type="text" value="Question Image"/>	A. $\sinh x$ B. $\cosh x$ C. $\tanh x$ D. $\coth x$
11	The statement that a group can have more than one identity elements is	A. True B. False C. Fallacious D. Some times true
12	Differentiate the expression $(x-1)(x+2)^2$ with respect to x gives	A. $2x(x+2)$ B. $2(x-1)(x+2)$ C. $2(x+1)$ D. $3x(x+2)$
13	$\tanh x =$ _____	
14	The set of the first elements of the orders pairs forming a relations is called its	A. Relation in B B. Range C. Domain D. Relation in A
15	The inverse of a line is	A. inverse B. Line C. quadratic D. Circle
16	Every irrational number is	A. A real number B. A prime number C. A natural number D. An integer

17	Question Image	A. An empty set B. Universal set C. A singleton set D. None of these
18	$\{x : x \in \mathbb{Z} \text{ and } x < 1\}$ is	A. Singleton set B. A set with two points C. Empty set D. None of these
19	Range of $3 \sin x$ is _____	A. $[-3, 3]$ B. $[-1, 1]$ C. \mathbb{R} D. None of these
20	When rational fraction is separated into partial fractions, the result is	A. an identity B. A fraction C. A partial sum D. Improper fraction