

ECAT Pre General Science Mathematics Chapter 4 Functions & Groups Online Test

Sr	Questions	Answers Choice
1	A semi-group having an identity is called a	A. groupoid B. non-commutative C. abelian D. monoid
2	Identity element, if it exists, is	A. inverse B. unique C. commutative D. associative
3	The set {E,0}, is closed under (ordinary)	A. multiplication B. addition C. subtraction D. division
4	Addition is not operation on	A. Natural numbers B. Even numbers C. odd numbers D. set of integers
5	Extraction of square root of a given number is a	A. unary operation B. binary operation C. group D. inverse function
6	The extraction of a cube root of a given number is a	A. Binary operation B. Unary operation C. group D. multiplicative inverse
7	Negation of a given number is an example of	A. Binary operation B. group C. unary operation D. function
8	N is closed with respect to ordinary	A. addition B. multiplication C. addition and multiplication D. division
9	There will be no inverse if the function is	A. one -to - one B. One to many C. onto D. into
10	The inverse of a line is	A. inverse B. Line C. quadratic D. Circle
11	The function denoted by 1/f called the	A. Reciprocal function B. Inverse function C. Constant function D. Reverse function
12	A function∫ will have an inverse function if and only if it is a	A. onto function B. into function C. Constant D. one-one function
13	ax+by+c = 0 , represents a	A. Circle B. Parabola C. Straight line D. Quadratic circle
14	The group of a constant line is	A. Vertical line B. Parabola C. Circle D. Horizontal line
15	A relation a into B in which Domain is not equal to a, is called.	A. Into function B. on to function C. None of these D. Surjective

If no two elements of ordered pairs of a function from A onto are the same, then it is called. A. Surjective B. Injuctive C. Bijective D. on to If no two elements of ordered pair of a functions from A into B are equal, then it is called. Function is a special type of A. Surjective B. Injuctive C. Bijective D. Onto A. relation B. ordered pairs C. Cartesian product D. Set A. a=b and c=d B. a = d and b = c C. a = c and b = d D. a - b = c -d A. Domain B. Range C. Dispetive D. Onto A. Pomain B. Range C. Cartesian product D. Set	
17 If no two elements of ordered pair of a functions from A into B are equal, then it is called. 18 Function is a special type of 19 (a,b) = (c,d) if and only if 20 The set of second elements of the ordered pairs ferming a relation salled a. B. Injuctive C. Bijective D. Onto A. relation B. ordered pairs C. Cartesian product D. Set A. a=b and c=d B. a = d and b = c C. a = c and b = d D. a - b = c -d A. Domain B. Range	
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19 $(a,b) = (c,d)$ if and only if B. $a = d$ and $b = c$ C. $a = c$ and $b = d$ D. $a - b = c - d$ A. Domain B. Range	
20 The set of accord elements of the ordered pairs forming a relation called a B. Range	
C. Function D. Relation	
21 If A is non-empty set, any subset of A x A is called a relation in A. A B. B C. ∅ D. r	
The set of first elements of the ordered pairs forming the relation is called is A. Domain B. Range C. Ordered paris D. Relation	
A. Domain B. Range C. Binary relation D. Ordered pair	
Let A and B be two non-empty sets, then any subset of the cartesian product A x B called a A. Function B. Domain C. Range D. Binary relation	
A. vertical line B. parabola C. circle D. horizontal line	
A. circle B. parabola C. straight line D. quadratic circle	
A. it has only two variables B. it has one varible C. its graphs is straight line D. its graphs is circle	
A. into function B. onto function B. onto function C. None of these D. surjective	
A. bijective function B. into function C. onto function D. surjective	
30 Which of the following diagrams represent into function?	