

ECAT Mathematics Chapter 4 Functions & Groups

Sr	Questions	Answers Choice
1	The set of second elements of the ordered pairs forming a relation is called a	A. Domain B. range C. function D. relation
2	N is closed with respect to ordinary	A. addition B. multiplication C. addition and multiplication D. division
3	The set of cartesian product $A \times B$ consists of	A. Domain B. Range C. Binary relation D. Ordered pair
4	The set $\{E, 0\}$, is closed under (ordinary)	A. multiplication B. addition C. subtraction D. division
5	A function f will have an inverse function if and only if it is a	A. onto function B. into function C. Constant D. one-one function
6	arb mean	A. a is related to b B. b is related to a C. a is reciprocal of b D. a is not related to b
7		A. injective as well as surjective B. both onto and into C. one - one and into D. only (1 - 1)
8	The extraction of a cube root of a given number is a	A. Binary operation B. Unary operation C. group D. multiplicative inverse
9	the function $y = mx+c$ is, called linear function, because	A. it has only two variables B. it has one variable C. its graphs is straight line D. its graphs is circle
10	Which of the following represent injective function	
11	Which of the following notation defines $A \times B$	
12	Addition is not operation on	A. Natural numbers B. Even numbers C. odd numbers D. set of integers
13	If range of a function f is B , then the function is	A. surjective B. injective C. bijective D. into
14	Which of the following diagrams represent bijective function?	
15	The identity function is	A. surjective B. injective C. bijective D. into
16	A function f from A to B can be written as	
17	The set of first elements of the ordered pairs forming the relation is called its	A. domain B. range C. ordered paris D. relation
		A. Into function

18	A relation a into B in which Domain is not equal to a , is called.	B. on to function C. None of these D. Surjective
19	If A is non-empty set, any subset of $A \times A$ is called a relation in a	A. A B. B C. D D. r
20	$ax+by+c = 0$, represent a	A. circle B. parabola C. straight line D. quadratic circle