

## ECAT Mathematics Chapter 4 Functions & Groups

Sr	Questions	Answers Choice
1	Extraction of square root of a given number is a	A. unary operation B. binary operation C. group D. inverse function
2	If no two elements of ordred pair of a function from A into B are equal, then it is called	A. surjective B. injuctive C. bijective D. on to
3	Identity element, if it exists, is	A. inverse B. unique C. commutative D. associative
4	The set of first elements of the ordered pairs forming the relation is called its	A. domain B. range C. ordered paris D. relation
5	(a,b) = (c,d) if and only if	A. a=b and c =d B. a = d and b = c C. a = c and b = d D. a - b = c -d
6	(a,b) (c,d) if and only if	A. a = b and c =d B. a = d and b = c C. a = c and b = d D. a - b = c - d
7	Question Image	A. bijective function B. into function C. onto function D. surjective
8	The net of cartesian product AxB consists of	A. domain B. range C. binary relation D. ordered pair
9	A function from A to B is called on-to function, if its range is	A. A B. B C. A and B D. neither A nor B
10	N is closed with respect to ordinary	A. addition     B. multiplication     C. addition and multiplication     D. division
11	The group of a constant line is	A. Vertical line B. Parabola C. Circle D. Horizontal line
12	If no two elements of ordered pairs of a function from A onto B are the same, then it is called	A. surjective B. injuctive C. bijective D. on to
13	The function denoted by 1/f called the	A. Reciprocal function B. Inverse function C. Constant function D. Reverse function
14	A relation A into B in which Domain is not equal to A, is called	A. into function B. onto function C. None of these D. surjective
15	The extraction of a cube root of a given number is a	A. Binary operation     B. Unary operation     C. group     D. multiplicative inverse

16	Let A and B be two non-empty sets, then any subset of the cartesian product AxB is called a	A. function B. domain C. range D. binary relation
17	The set of second elements of the ordered pairs forming a relation called a	A. Domain B. Range C. Function D. Relation
18	The identity function is	A. surjective B. injuctive C. bijective D. into
19	Addition is not operation on	A. Natural numbers B. Even numbers C. odd numbers D. set of integers
20	ax+by+c = 0, represent a	A. circle B. parabola C. straight line D. quadratic circle