

ECAT Mathematics Chapter 4 Functions & Groups

Sr	Questions	Answers Choice
1	If the number of elements in set A is n, and in set B is m, then the number of elements in $A \times B$ will	A. $n < \sup > m < /sup >$ B. $m < \sup > n < /sup >$ C. $m \times n$ D. $m + n$
2	The function denoted by $1/f$ called the	A. Reciprocal function B. Inverse function C. Constant function D. Reverse function
3	N is closed with respect to ordinary	A. addition B. multiplication C. addition and multiplication D. division
4	Function is a special type of	A. relation B. ordered pairs C. cartesian product D. sets
5	Addition is not operation on	A. Natural numbers B. Even numbers C. odd numbers D. set of integers
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	The set of first elements of the ordered pairs forming the relation is called is	A. Domain B. Range C. Ordered paris D. Relation
8	The set of second elements of the ordered pairs forming a relation is called a	A. Domain B. range C. function D. relation
9	A semi-group having an identity is called a	A. groupoid B. non-commutative C. abelian D. monoid
10	The extraction of a cube root of a given number is a	A. Binary operation B. Unary operation C. group D. multiplicative inverse
11	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
12	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
13	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
14	$ax+by+c = 0$, represent a	A. circle B. parabola C. straight line D. quadratic circle
15	Which of the following represent injuctive function	
16	If no two elements of ordred pair of a function from A into B are equal then it is called	A. surjective B. injuctive

16	If no two elements of ordered pair of a function from A into B are equal, then it is called	C. bijective D. on to
17	The set $\{E, 0\}$, is closed under (ordinary)	A. multiplication B. addition C. subtraction D. division
18	A function f from A to B can be written as	
19	If no two elements of ordered pairs of a function from A onto B are the same, then it is called	A. surjective B. injective C. bijective D. on to
20	$(a, b) \leq (c, d)$ if and only if	A. $a = b$ and $c = d$ B. $a = d$ and $b = c$ C. $a = c$ and $b = d$ D. $a - b = c - d$