

Mathematics ECAT Pre Engineering Chapter 4 Functions and Groups Online Test

Sr	Questions	Answers Choice
1	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
2	There will be no inverse if the function is	A. one -to - one B. One to many C. onto D. into
3	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
4	If range of a function f is B, then the function is	A. surjective B. injective C. bijective D. into
5	Which of the following diagrams represent into function?	
6	A semi-group having an identity is called a	A. groupoid B. non-commutative C. abelian D. monoid
7	Function is a special type of	A. relation B. ordered pairs C. cartesian product D. sets
8	$(a,b) = (c,d)$ if and only if	A. $a=b$ and $c =d$ B. $a = d$ and $b = c$ C. $a = c$ and $b = d$ D. $a - b = c -d$
9	The extraction of a cube root of a given number is a	A. Binary operation B. Unary operation C. group D. multiplicative inverse
10	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
11	Which of the following is surjective	
12	Let A and B be two non-empty sets, then any subset of the cartesian product $A \times B$ is called a	A. function B. domain C. range D. binary relation
13	Extraction of square root of a given number is a	A. unary operation B. binary operation C. group D. inverse function
14	Which of the following notation defines $A \times B$	
15	Question Image	
16	The set of second elements of the ordered pairs forming a relation is called a	A. Domain B. range C. function D. relation
17	The group of a constant line is	A. Vertical line B. Parabola C. Circle D. Horizontal line
		A. Surjective

18	If no two elements of ordered pair of a functions from A into B are equal, then it is called.	B. Injuctive C. Bijective D. Onto
19	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. $n^{m \times n}$ B. $m^{n \times n}$ C. $m \times n$ D. $m + n$
20	Function is a special type of	A. relation B. ordered pairs C. Cartesian product D. Set