

## ECAT Mathematics Chapter 2 Set, Functions and Groups

Sr	Questions	Answers Choice
1	Question Image	A. A B. B C. A' D. None of these
2	Question Image	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
3	The multiplicative inverse of -1 in the set $\{1, -1\}$ is	A. 1 B. -1 C. $\pm 1$ D. 0 E. Does not exist
4	The complement of set A relative to universal set U is the set	A. $\{x / x \in A \wedge x \in U\}$ B. $\{x / x \notin A \wedge x \in U\}$ C. $\{x / x \in A \text{ and } x \notin U\}$ D. $A - U$
5	Every subset of a finite set is	A. Disjoint B. Null C. Finite D. Infinite
6	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
7	A set having only one element is called	A. An empty set B. Universal set C. A singleton set D. A power set
8	Question Image	
9	The set Q	A. Forms a group under addition B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
10	Question Image	A. $n(A)$ B. $n(B)$ C. 0 D. 1
11	Question Image	D. None of these
12	The function whose range consists of just one element is called	A. One-One Function B. Identity Function C. Onto Function D. Constant Function
13	If $a = \{2m / 2m < 9, m \in p\}$ , the $(n A) =$	A. $\{2, 3, 4, 5, 6, 7, 8\}$ B. $\{2, 4, 6, 8, \dots, 16\}$ C. $\{4, 6\}$ D. $\{2, 3, 5, 7\}$
14	Question Image	A. A B. A' C. U D. None of these
15	Question Image	A. -x B. Infinite set C. $\{-4, 4\}$ D. None of these
16	Which of the following sets is finite	A. The set of natural numbers between 3 and 10 B. The set of rational numbers between 3 and 10 C. The set of real numbers between 3 and 10 D. The set of integers between 3 and 10

		C. The set of real numbers between 0 and 1 D. The set of rational numbers between 0 and 1
17	The set of all positive even integers is	A. Not a group B. A group w.r.t. subtraction C. A group w.r.t. division D. A group w.r.t. multiplication
18	If A and B are two sets then intersection of A and B is denoted by	
19	if $A = \{x/x \in \mathbb{Q} \wedge 0 < x < 1\}$ , the A is	A. Infinite set B. Finite set C. Set of rational numbers D. Set of real numbers
20	<div>Question Image</div>	A. A B. A' C. U D. None of these