

ECAT Mathematics Chapter 2 Set, Functions and Groups

Sr	Questions	Answers Choice
1	Z is a	A. Infinite set B. Finite set C. Singleton set D. Set of all integers
2	Question Image <input style="width: 100%;" type="text"/>	A. A finite set B. An infinite set C. An empty set D. None of these
3	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. $\{2,3,5,7\}$
4	Question Image <input style="width: 100%;" type="text"/>	A. A B. B C. U D. None of these
5	What is the number of elements of the power set of $\{0, 1\}$	A. 1 B. 2 C. 3 D. 4
6	$A = B$ if	D. A is equivalent to B
7	Which of the following sets is infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers between 3 and 10 D. The set of rational numbers between 3 and 10
8	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
9	The extraction of cube root of a given number is a	A. Unary Operation B. Binary Operation C. Relation D. None of these
10	The set $\{\{a,b\}\}$ is	A. Infinite set B. Singleton set C. Two points set D. None
11	Question Image <input style="width: 100%;" type="text"/>	A. A B. A' C. U D. None of these
12	Question Image <input style="width: 100%;" type="text"/>	
13	The set of first elements of the ordered pairs in a relation is called its	A. domain B. range C. relation D. function
14	Question Image <input style="width: 100%;" type="text"/>	A. A B. A' C. U D. None of these
15	If A is a subset of B and B contains at least one element which is not an element of A, then A is said to be	A. Improper subset of B B. Super set of B C. Proper subset of B D. None of these
16	The set $(Q, .)$	A. Forms a group B. Does not form a group C. Contains no additive identity D. Contains no multiplicative identity

D. Contains no additive inverse

17 Let A,B, and C be any sets such that $A \cup B = A \cup C$ and $A \cap B = A \cap C$ then

- A. $A \neq C$
- B. $B = C$
- C. $A = B$
- D. $A \neq B$

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- A. $n(A)$
- B. $n(B)$
- C. 0
- D. 1

19 The set of months in a year beginning with S.

- A. {September, October, November}
- B. Singleton set
- C. Null set
- D. Empty set

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- D. None of these