

ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	The statement that a group can have more than one identity elements is	A. True B. False C. Ambiguous D. Some times true
2	Question Image	
3	Question Image	B. A C. A' D. U
4	Which conjunction is not true ?	
5	Question Image	A. A B. A' C. U D. None of these
6	Question Image	A. Addition B. Subtraction C. Multiplication D. None of these
7	The set $\{1, -1, i, -i\}$	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication D. Not closed under multiplication
8	0 is a symbol of	A. singleton set B. Empty set C. Equivalent set D. Infinite set
9	Which of the following statement is true?	A. A set is a collection of non-empty object B. A set is a collection of only numbers C. a set is any collection of things D. a set is well-defined collection of objects
10	Question Image	
11	If $B-A \neq \emptyset$, then $n(B-A)$ is equal to	A. $n(A)+n(C)$ B. $n(C)-n(A)$ C. $n(A)-n(C)$ D. None of these
12	Z is the set of integers (\mathbb{Z}) is a group with $a * b = a + b + 1$, $a, b \in \mathbb{Z}$. then inverse of a is	A. -a B. a + 1 C. -1-a D. None of these
13	If $A \subseteq B$, and B is a finite set, then	A. $n(A) < n(B)$ B. $n(B) < n(A)$ C. $n(A) \leq n(B)$ D. $n(A) \geq n(B)$
14	Question Image	
15	Question Image	A. A B. B C. A' D. None of these
16	The graph of a quadratic function is	A. Circle B. Straight line C. Parabola D. Triangle
17	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. None of these

D. Identity function

18 The set $\{\mathbb{Z} \setminus \{0\}\}$ is group w.r.t

- A. Addition
- B. Multiplication
- C. Division
- D. Subtraction

19 Question Image

20 If $n(A) = n$ then $n(P(A))$ is

- A. $2n$
- B. n^{2^2}
- C. $n/2$
- D. 2^n