

## ECAT Mathematics Chapter 2 Set, Functions and Groups

Sr	Questions	Answers Choice
1	$\{x : x \in \mathbb{Z} \text{ and } x < 1\}$ is	A. Singleton set B. A set with two points C. Empty set D. None of these
2	A disjunction of two statement p and q is true	A. p is false B. q is false C. Both p and q are false D. One of p and q is true
3	Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set $X \cup Y = 54$ , then number of elements in set $X \cap Y =$	A. 4 B. 3 C. 2 D. 1
4	The total number of subsets that can be formed out of the set {a, b, c} is	A. 1 B. 4 C. 8 D. 12
5	$(A \cap B)^c =$ -----	A. $A^c \cup B^c$ B. $A^c \cup B$ C. $A^c \cap B$ D. None of these
6	A conditional is regarded as false only when the antecedent is true and consequent is	A. True B. False C. Known D. Unknown
7	The set of the first elements of the orders pairs forming a relations is called its	A. Relation in B B. Range C. Domain D. Relation in A
8	Question Image	
9	Which of the following is the subset of all sets	A. $\Phi$ B. $\{1,2,3\}$ C. $\{\Phi\}$ D. $\{0\}$
10	For any two sets A and, $A \subseteq B$ if	A. $x \in A \Rightarrow x \in B$ B. $x \notin A \Rightarrow x \notin B$ C. $x \in A \Rightarrow x \notin B$ D. None of these
11	Question Image	A. 4 B. 3 C. 2 D. 1
12	If $T = \{2,4,6,8,10,12\}$ , then	A. T = (First six natural numbers) B. T = (First six odd numbers) C. T = (First six real numbers) D. T = ( First six even numbers)
13	The set $\{-1, 1\}$ is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
14	If $0 = \{1,3,5,\dots\}$ , then $n(0) =$	A. Infinite B. Even numbers C. odd integers D. 99
15	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
16	The set of the first elements of the orders pairs forming a relation is called its	A. Relation in B B. Range C. Domain

17	Question Image	
18	Question Image	D. none of these
19	Question Image	A. a constant function B. linear function C. quadratic funtion D. none of these
20	Question Image	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers