

## ECAT (Pre-Eng) 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	The set $\{ \{a, b\} \}$ is	A. Infinite set B. Singleton set C. Two points set D. Empty set
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $A = B$ B. $B = C$ C. $A = C$ D. None of these
4	Write down the power set of $\{9, 11\}$	
5	The set of even prime numbers is	A. $\{2, 4, 6, 8, 10\}$ B. $\{2, 4, 6, 8, 10, 12\}$ C. $\{1, 3, 5, 7, 9\}$ D. $\{2\}$
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A B. B C. U D. None of these
7	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
8	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 0 and 1 D. The set of rational numbers between 0 and 1
9	Decimal part of irrational number is	A. Terminating B. Repeating only C. Neither repeating nor terminating D. Repeating and terminating
10	For any set X, $X \cup X$ is	A. X B. $X'$ C. $\Phi$ D. Universal Set
11	For any set B, $B \cup B'$ is	A. Is set B B. Set B' C. Universal set
12	The set of natural numbers is a subset of	A. $\{1, 2, 3, \dots, 100\}$ B. The set of whole numbers C. $\{2, 4, 6, 8, \dots\}$ D. None of these
13	The number of subset of $\{0\}$ is	A. 1 B. 2 C. 3 D. None
14	Onto function is also called	A. Bijective function B. Injective function C. Surjective function D. None of these
15	The set $\{\mathbb{Z} \setminus \{0\}\}$ is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction

16	Under multiplication, solution set of is	A. Groupoid B. Abelian group C. Semi group D. All of these
17	Question Image	
18	The set of complex numbers forms a group under the binary operation of	A. Addition B. none of these C. Division D. Subtraction
19	Question Image	A. A is proper subset of B B. A is an improper subset of B C. A is equivalent to B D. B is subset of A
20	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function