

## ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	The set {-1, 1} is	A. Group under the multiplication B. Group under addition C. Does not form a group D. Contains no identity element
2	If the intersection of two sets is non-empty, but either is a subset of other are called	A. Disjoint sets B. Over lapping C. Equal sets D. None of these
3	The set {1, -1, 1, -1}, form a group under	A. Addition B. Multiplication C. Subtraction D. None
4	A function whose range is just one elements is called	A. One-one function B. Constant function C. Onto function D. Identity function
5	The set {-1, 1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
6	For any two sets A and, A ⊆ 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
		A. A
7	Question Image	B. A' C. U
		D. A A'
8	The extraction of cube root of a given number is a	A. Unary Operation B. Binary Operation C. Relation D. None of these
9	Question Image	
10	The set {x x∈N∧x-4=0} in tabular form is	A. {-4} B. {0} C. {} D. None of these
11	The negation of a number	A. a relation B. a function C. unary operation D. binary operation
12	Z is the set of integers, $(z, *)$ is a group with $a * b = a + b + 1$ , $a, b \subseteq G$ . then inverse of a is	Aa B. a + 1 C2 -a D. None of these
13	P∉A means	A. <i>P</i> is subset of A B. <i>P</i> is an element of A C. <i>P does not belongs to A</i> D. A does not element of <i>P</i>
14	The complement of set A relative to universal set U is the set	A. $\{x \mid x \in A \land x \in U\}$ B. $\{x \mid x \notin A \land x \in U\}$ C. $\{x \mid x \in A \text{ and } x \notin U\}$ D. A-U
15	Additive inverse of -a -b is	A. a Ba + b C. a - b D. a + b
16	If P is a proposition then its negative is denoted by	
		A True

17	The statement that a group can have more than one identity elements is	B. False C. Ambiguous D. Some times true
18	If f:A→B is an injective function and second elements of no two of its ordered pairs are equal, then f is called	A. 1-1 and onto B. Bijective C. 1-1 and into D. None of these
19	{x : xε Z and x < 1} is	A. Singleton set B. A set with two points C. Empty set D. None of these
20	Question Image	