ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	{1, 2, 3} is _____	A. an infinite set B. A finite set C. A singleton set D. Universal set
2	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
3	The function f{(x, y) | y = ax^2 + bx + c} is	A. One-one function B. Constant function C. Onto function D. Quadratic function
4	Question Image	A. Biconditional B. Implication C. Antecedent D. Hypothesis
5	Z is the set of integers, (z, *) is a group with a * b = a + b + 1, a, b $\in$ G. then inverse of a is	A. -a B. a + 1 C. -2 -a D. None of these
6	Question Image	A. A B. A' C. U D. None of these
7	Question Image	A. -x B. Infinite set C. {-4, 4} D. None of these
8	Question Image	A. Evert element of A is in B B. Every element of B is in A C. Every element of A is in B' D. Every element of A is in A
9	The set of natural numbers is a subset of	A. {1, 2, 3, ... 100} B. The set of whole numbers C. {2, 4, 6, 8, ...} D. None of these
10	Question Image	
11	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
12	$(A \cap B)c$ =	A. $A \cap B$ B. $(A \cup B)c$ C. $Ac \cup Bc$ D. Φ
13	The complement of set A relative to universal set U is the set	A. {x / x$\in$ A$\wedge$ x$\in$ U} B. {x / x$\notin$ A$\wedge$ x $\in$ U} C. {x / x$\in$ A and x$\notin$ U} D. A-U
14	If A and B are two sets then any subset R of B x A is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
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 {Z\ {0} } is group w.r.t	A. Addition B. Multiplication C. Division

		D. Subtraction
17	The sets {1, 2, 4} and {4, 6, 8, 10} are	A. Equal sets B. Equivalent sets C. Disjoint sets D. Over lapping sets
18	Question Image	
19	What is the number of elements of the power set of {0, 1}	A. 1 B. 2 C. 3 D. 4
20	If S = {3,6,9,12.....}, then	A. S = Four multiples of 3 B. S = Set of even numbers C. S = Set of prime numbers D. S = All multiples of 3