ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	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)
2	Multiplicative inverse of 0 is	A. 0 B. 1 C. +-1 D. Does not exist
3	The set of integer is	A. Finite group B. A group w.r.t addition C. A group w.r.t multiplication D. Not a group
4	Question Image	
5	The set { {a,b} } is	A. Infinite set B. Singleton set C. Two points set D. Empty set
6	The number of proper subset of A ={a.b.c.d} is	A. 3 B. 6 C. 8 D. 15
7	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
8	A function whose range is just one elements is called	A. One-one function B. Constant function C. Onto function D. Identity function
9	If A = {x/x is a positive integer and 4≤x<23}, then A=	A. {1,2,3,4,5,6,7} B. {4,5,6.....22} C. {1,2,3,.....23} D. {1,2,3,4,5}
10	Question Image	
11	Question Image	B. A C. A' D. U
12	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
13	{0} is a	A. Empty set B. Singleton set C. Zero set D. Null Set
14	Question Image	
15	If A and B are two sets then any subset R of A x B is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
16	The complement of set A relative to universal set U is the set	A. {x / x∈ A∧ x∈ U} B. {x / x∉ A∧ x ∈ U} C. {x / x∈ A and x ∉ U} D. A-U
17	The set of rational numbers is subset of	A. The set of natural numbers B. The set of real numbers C. The set of integers D. The set of whole numbers

18	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
19	Question Image	
20	A monoid (G, *) is said to be group if	A. have identity element B. is commutative C. have inverse of each element D. None of these