ECAT Mathematics Chapter 2 Set, Functions and Groups

Sr	Questions	Answers Choice
1	Question Image	A. -x B. Infinite set C. {-4, 4} D. None of these
2	{1, 2, 3, 4,.....} is set of _____	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
3	Question Image	A. square root function B. identity function C. linear function D. quadratic function
4	Question Image	A. A B. B C. U D. None of these
5	To each element of a group there corresponds ..... inverse element	A. Two B. One C. No D. Three
6	The set (Z, +) forms a group	A. Forms a group w.r.t addition B. Forms a group w.r.t multiplication C. Non commutative group w.r.t multiplication D. Doesn't form a group
7	If E = { } , then P(E)	A. ∅ B. { } C. {(2),(4),(6)....} D. (∅)
8	Question Image	
9	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
10	Which conjunction is not true ?	
11	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
12	If A is a set then any subset R of A x A is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
13	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
14	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set D. None
15	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∪Y = 54, then number of elements in set X∩Y =	A. 4 B. 3 C. 2 D. 1
16	Question Image	A. 4 B. 3 C. 2 D. 1

17	Question Image	A. Conclusion B. Implication C. Antecedent D. Hypothesis
18	Question Image	B. A C. A' D. U
19	If n(X) = 18, n(X∩Y) = 7, n(X∪ Y) = 40 then n(Y) =	A. 1 B. 12 C. 5 D. 29
20	Question Image	A. A onto B B. both a & c C. A into B D. none of these