ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	The contra positive of p → q is	A. q → p B. ~q→~q C. ~p→~q D. None of these
2	The multiplicative inverse of x such that x = 0 is	A. -x B. does not exist C. 1/x D. 0
3	The complement of set A relative to universal set U is the set	
4	If A ⊆ B then A ∪ B is	A. A B. B C. A' D. A ∩B
5	To each element of a group there corresponds ..... inverse element	A. Two B. One C. No D. Three
6	If A⊆ B, and B is a finite set, then	A. n (a) < n(B) B. n(B)<(A) C. n(A)≤ n (B) D. n(A)≥ n(B)
7	The function {f(x,y)|y = ax2 +bx +c} is	A. One-one function B. Constant function C. Onto function D. Quadratic function
8	To each element of a group there corresponds _____ inverse element	A. Two B. One C. No D. Three
9	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
10	Question Image	D. None of these
11	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
12	Which of the following has the same value as i113	A. i B. -1 C. -i D. 1
13	Question Image	
14	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set D. None
15	The graph of a linear function is	A. a circle B. triangle C. a straight line D. none of these
16	Z is the set of integers, (z, *) is a group with a * b = a + b + 1, a, b ∈G. then inverse of a is	A. -a B. a + 1 C. -2 -a D. None of these
		A. A set is a collection of non-empty object B. A set is a collection of only

17	Which of the following statement is true?	B. A set is a collection of only numbers C. a set is any collection of things D. a set is well-defined collection of objects
18	Question Image	
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	Question Image	