ECAT Mathematics Chapter 2 Set, Functions and Groups

Sr	Questions	Answers Choice
1	A set having only one element is called	A. An empty set B. Universal set C. A singleton set D. A power set
2	The set of complex numbers forms a group under the binary operation of	A. Addition B. none of these C. Division D. Subtraction
3	Question Image	A. A B. B C. U D. None of these
4	Question Image	
5	Question Image	
6	If p and q are two statements then their conjunction is denoted by	
7	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
8	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
9	The function {f(x,y)|y = ax2 +bx +c} is	A. One-one function B. Constant function C. Onto function D. Quadratic function
10	Empty set is	A. Not subset of every set B. Finite set C. Infinite set D. Not the member of real numbers
11	The contra positive of p → q is	A. q → p B. ~q→~q C. ~p→~q D. None of these
12	Question Image	A. A = C B. A = B C. B = C D. None of these
13	Question Image	
14	The multiplicative inverse of -1 in the set {1-,1} is	A. 1 B. -1 C. ±1 D. 0 E. Does not exist
15	Question Image	A. A B. A' C. U D. None of these
16	Question Image	A. 3 B. 1 C. 2 D. 4
17	Question Image	
18	Question Image	
19	Let A and B be two sets. If everv element of A is also an element of B then	

20	The many subset can be formed from the set {a,b,c,d}	A. 8 B. 4 C. 12 D. 16