ECAT Mathematics Chapter 2 Set, Functions and Groups

Sr	Questions	Answers Choice
1	Question Image	A. A = B B. B = C C. A = C D. None of these
2	Power set of X i.e P(X) _____ under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
3	Which of the following is the definition of singleton	A. The objects in a set B. A set having no element C. A set having no subset D. None of these
4	If a = {2m/2m < 9 ,m€ p} , the (n A) =	A. {2,3,4,5,6,7,8} B. {2,4,6,8.....16} C. { 4, 6} D. {2,3,5,7}
5	Question Image	A. A = C B. A = B C. B = C D. None of these
6	What is the number of elements of the power set of {0, 1}	A. 1 B. 2 C. 3 D. 4
7	Power set of X i.e P(X).....under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
8	The set X is	A. Proper Subset of X B. Not A subset of X C. Improper Subset of X D. None of these
9	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
10	G = {e, a, b, c} is an Abelian group with e as identity element. The order of the other elements are	A. 2, 2, 2 B. 3, 3, 3 C. 2, 2, 4 D. 2, 3, 4
11	Which symbolic notation represent unary operation ?	A. - B. ∨ C. ∧ D. ⇔
12	Which conjunction is not true ?	
13	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
14	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
15	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
16	Question Image	A. 1 B. 12 C. 5

		D. 29
17	The number of subset of {0} is	A. 1 B. 2 C. 3 D. None
18	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)
19	In set builder notation the set {0, 1, 2, ..., 100} can be written as	
20	Question Image	D. none of these