ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	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)
2	The set {-1,1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
3	The set {-1, 1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
4	The sets {1, 2, 4} and {4, 6, 8, 10} are	A. Equal sets B. Equivalent sets C. Disjoint sets D. Over lapping sets
5	The set of even prime numbers is	A. (2,4,6,8,10} B. {2,4,6,8,10,12} C. {1,3,5,7,9} D. {2}
6	A statement which is either true or false is called	A. Induction B. Deduction C. Propositicon D. Logic
7	The function f{(x, y) | y = ax^2+ bx + c} is	A. One-one function B. Constant function C. Onto function D. Quadratic function
8	Additive inverse of -a -b is	A. a B. -a + b C. a - b D. a + b
9	Question Image	A. Addition B. Multiplication C. Division D. Both addition and multiplication
10	Question Image	D. None of these
11	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
12	If #n = $(n-5)^2$+ 5, then find #3 x #4.	A. 54 B. 12 C. 4 D. 9
13	If n(A) = n then n(P(A)) is	A. 2n B. n² C. n/2 D. 2ⁿ
14	Let A,B, and C be any sets such that A∪B = A∪C and A∩B = A∩C then	A. A≠ C B. B = C C. A = B D. A≠ B
15	{1, 2, 3, 4,.....} is set of _____	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
16	Question Image	D. none of these
		A. Not a group

17	The set of all positive even integers is	A. Not a group B. A group w.r.t. subtraction C. A group w.r.t. division D. A group w.r.t. multiplication
18	Question Image	A. a-b=ab B. ab=a C. a+b=ab
19	Question Image	
20	If a set S contains "n" elements then P (S) has ..... number of elements	A. 2ⁿ B. 2²ⁿ C. 2 . n D. n²