ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	If A ⊆ B then A ∪ B is	A. A B. B C. A' D. A ∩B
2	Question Image	A. square root function B. identity function C. linear function D. quadratic function
3	Question Image	A. a-b=ab B. ab=a C. a+b=ab
4	The set {Z\ {0} } is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
5	The set of months in a year beginning with S.	A. {September, October, November} B. Singleton set C. Null set D. Empty set
6	The set R is _____ w.r.t subtraction	A. Not a group B. A group C. No conclusion drawn D. Non commutative group
7	The multiplicative inverse of -1 in the set {1-, 1} is	A. 1 B. -1 C. 0 D. Does not exist
8	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
9	Question Image	
10	Question Image	A. Addition B. Multiplication C. Division D. Both addition and multiplication
11	A function in which the second elements of the order pairs are distinct is called	A. Onto function B. One-one function C. Identity function D. Inverse function
12	Φset is the _____ of all sets?	A. Subset B. Union C. Universal D. Intersection
13	The set Q	A. Forms a group under addition B. Does not form a group C. Contains no additive indentity D. Contains no additive inverse
14	If T = {2,4,6,8,10,12}, then	A. T = (First six natural numbers) B. T = (First six odd numbers) C. T = (First six real numbers) D. T = (First six even numbers)
15	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set D. None
16	The set { {a,b} } is	A. Infinite set B. Singleton set C. Two points set

		D. Empty set
17	If a 1-1 correspondence can be established b/w two sets A and B, then they are called	A. Equal sets B. Equivalent sets C. Over lapping sets D. None of these
18	If #n = $(n-5)^2$+ 5, then find #3 x #4.	A. 54 B. 12 C. 4 D. 9
19	The set {-1,1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
20	Which of the following statement is true?	A. A set is a collection of non-empty object 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