ECAT Mathematics Chapter 23

Sr	Questions	Answers Choice
1	Question Image	A. Evert element of A is in B B. Every element of B is in A C. Every element of A is in B' D. Every element of A is in A
2	Question Image	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
3	{1, 2, 3, 4,.....} is set of _____	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
4	The number of different ways of describing a set is	A. One B. Two C. Three D. Four
5	The set (Z, +) forms a group	A. Forms a group w.r.t addition B. Forms a group w.r.t multiplication C. Non commutative group w.r.t multiplication D. Doesn't form a group
6	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
7	The set {Z\ {0} } is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
8	The set R is .....w.r.t subtraction	A. Not a group B. A group C. No conclusion drawn D. Non commutative group
9	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
10	The set of complex numbers forms	A. Commutative group w.r.t addition B. Commutative group w.r.t multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition
11	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
12	The set {x +iy / x, y ∈ Q} forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Both addition and multiplication
13	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
14	To each element of a group there corresponds ..... inverse element	A. Two B. One C. No D. Three

15	The function {f(x,y)|y = ax2 +bx +c} is	A. One-one function B. Constant function C. Onto function D. Quadratic function
16	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
17	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
18	The set of the first elements of the orders pairs forming a relation is called its	A. Relation in B B. Range C. Domain D. Relation In A
19	(A ∩ B)c =	A. A∩ B B. (A ∪ B)c C. Ac ∪ Bc D. Φ
20	The set { {a,b} } is	A. Infinite set B. Singleton set C. Two points set D. Empty set