ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	In a country, 55% of the male population has houses in cities while 30% have houses both in cities and in village. Find the percentage of the population that has house only in villages.	A. 45 B. 30 C. 25 D. 50
2	The set {Z\{0}} is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
3	The set R is _____ w.r.t subtraction	A. Not a group B. A group C. No conclusion drawn D. Non commutative group
4	Which of the following is the subset of all sets	A. Φ B. {1,2,3} C. {Φ} D. {0}
5	The sets {1, 2, 4} and {4, 6, 8, 10} are	A. Equal sets B. Equivalent sets C. Disjoint sets D. Over lapping sets
6	Question Image	A. Biconditional B. Implication C. Antecedent D. Hypothesis
7	Question Image	A. -x B. Infinite set C. {-4, 4} D. None of these
8	The negation of a number	A. a relation B. a function C. unary operation D. binary operation
9	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
10	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
11	Question Image	
12	The logic in which every statement is regarded as true or false and no other possibility is called	A. Aristotelian login B. Inductive logic C. Non-Aristotelian logic D. None of these
13	The complement of set A relative to universal set U is the set	A. {x / x∈ A∧ x∈ U} B. {x / x∉ A∧ x ∈ U} C. {x / x∈ A and x∉ U} D. A-U
14	Question Image	
15	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
16	The set of rational numbers is subset of	A. The set of natural numbers B. The set of real numbers C. The set of integers

		D. The set of whole numbers
17	Question Image	
18	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these
19	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
20	The set of complex numbers forms a group under the binary operation of	A. Addition B. none of these C. Division D. Subtraction