ECAT Mathematics Chapter 23

Sr	Questions	Answers Choice
1	A conditional is regarded as false only when the antecedent is true and consequent is	A. True B. False C. Known D. Unknown
2	A disjunction of two statement p and q is true	A. p is false B. q is false C. Both p and q are false D. One of p and q is true
3	A conjunction of two statement p and q is true only if	A. p is true B. q is true C. Both p and q are true D. both p and q are false
4	$(A \cap Bc)c =$ ------------------------	A. $Ac \cup Bc$ B. $Ac \cup B$ C. $Ac \cap B$ D. None of these
5	For a set A, $A \cup Ac =$ --------------------	A. A B. $\varnothing$ C. Ac D. U
6	$A \cup (A \cup B) =$ --------------------	A. B B. A C. $A \cup B$ D. None of these
7	$(A \cup B) \cup C =$ ------------------------	A. $A \cap B(B \cup C)$ B. $A \cup (B \cup C)$ C. $A \cup (B \cap C)$ D. None of these
8	If $B \subseteq A$, then complement of B in A is = -----------------------	A. A-B B. $A \cap B$ C. B-A D. $A \cup B$
9	If A=B, then	A. $A \subset B$ and $B \subset A$ B. $A \subseteq B$ and $B \nsubseteq A$ C. $A \subseteq B$ and $B \subseteq A$ D. None of these
10	The set X is	A. Proper Subset of X B. Not A subset of X C. Improper Subset of X D. None of these
11	The function whose range consists of just one element is called	A. One-One Function B. Identity Function C. Onto Function D. Constant Function
12	Question Image	D. None of these
13	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction D. None of these
14	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
15	The geometrical representation of a linear function is	A. Circle B. Parabola C. Straight lie D. None of these
16	Question Image	A. Addition B. Subtraction C. Multiplication

		D. None of these
17	Question Image	D. None of these
18	If f:A→B is an injective function and second elements of no two of its ordered pairs are equal, then f is called	A. 1-1 and onto B. Bijective C. 1-1 and into D. None of these
19	Onto function is also called	A. Binjective function B. Injective function C. Surjechive function D. None of these
20	The contra positive of p → q is	A. q → p B. ~q→~q C. ~p→~q D. None of these