

## ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	The number of subset of {0} is	A. 1 B. 2 C. 3 D. None
2	A statement which is either true or false is called	A. Induction B. Deduction C. Proposition D. Logic
3	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
4	$A = B$ iff	A. All elements of A also the elements of B B. A and B should be singleton C. A and B have the same number of elements D. If both have the same element
5	Multiplicative inverse of "1" is	A. + - 1 B. 0 C. 1 D. None of these
6	$\Phi$ set is the _____ of all sets?	A. Subset B. Union C. Universal D. Intersection
7	$(A \cap B) \subset C =$ -----	A. $A \subset B \subset C$ B. $A \subset B \subset C$ C. $A \subset B \subset C$ D. None of these
8	The function $\{f(x,y)   y = ax^2 + bx + c\}$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
9	Which of the following is the definition of singleton	A. The objects in a set B. A set having no element C. A set having no subset D. None of these
10	If A and B are two sets then any subset R of $A \times B$ is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
11	The number of proper subset of $A = \{a, b, c, d\}$ is	A. 3 B. 6 C. 8 D. 15
12	What is the number of elements of the power set of $\{0, 1\}$	A. 1 B. 2 C. 3 D. 4
13	A set having only one element is called	A. An empty set B. Universal set C. A singleton set D. A power set
14	The graph of a quadratic function is	A. Circle B. Straight line C. Parabola D. Triangle
15	Question Image	

16	The number of subsets of $B = \{1,2,3,4,5\}$	<b>B. 32</b> C. 16 D. 5
17	A monoid $(G, *)$ is said to be group if	A. have identity element B. is commutative <b>C. have inverse of each element</b> D. None of these
18	Which of the following sets is infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers between 3 and 10 <b>D. The set of rational numbers between 3 and 10</b>
19	The number of different ways of describing a set is	A. One B. Two <b>C. Three</b> D. Four
20	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.	<b>A. 45</b> B. 30 C. 25 D. 50