

## ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	The graph of a quadratic function is	A. Circle B. Straight line <b>C. Parabola</b> D. Triangle
2	Question Image	<b>A. Addition</b> B. Multiplication C. Division D. Both addition and multiplication
3	Question Image	
4	The set $\{\{a,b\}\}$ is	A. Infinite set <b>B. Singleton set</b> C. Two points set D. None
5	$\{1, 2, 3, 4, \dots\}$ is set of _____	<b>A. Natural numbers</b> B. Whole numbers C. Integers D. Rational numbers
6	Question Image	<b>A. <math>n(A)</math></b> B. $n(B)$ <b>C. 0</b> D. 1
7	The set $\{-1, 1\}$ is closed under the binary operation of	A. Addition <b>B. Multiplication</b> C. Subtraction D. Division
8	$\mathbb{Z}$ is a group under	A. Subtraction B. Multiplication <b>C. Addition</b> D. None of these
9	If $0 = \{1, 3, 5, \dots\}$ , then $n(0) =$	<b>A. Infinite</b> B. Even numbers C. odd integers D. 99
10	Question Image	
11	Question Image	
12	Multiplicative inverse of "1" is	A. 0 B. -1 <b>C. 1</b> D. $\{0, 1\}$
13	The complement of set A relative to universal set U is the set	
14	If there is one-one correspondence between A and B, then we write.	A. $A = B$ B. $A \subseteq B$ C. $A \supseteq B$ <b>D. <math>A \sim B</math></b>
15	Let A and B be two sets. If every element of A is also an element of B then	
16	The set $(Q, \cdot)$	A. Forms a group <b>B. Does not form a group</b> C. Contains no additive identity D. Contains no additive inverse
17	The set Q	<b>A. Forms a group under addition</b> B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
18	Question Image	A. Natural numbers B. Whole numbers <b>C. Integers</b> D. Rational numbers

19

Question Image

20

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