

Mathematics ECAT Pre Engineering Chapter 2 Set, Functions and Groups Online Test

Sr	Questions	Answers Choice
1	Question Image	A. An empty set B. Universal set C. A singleton set D. None of these
2	Question Image	A. A finite set B. An infinite set C. An empty set D. None of these
3	The identity element of a set X with respect to intersection in $P(X)$ is	A. X B. Does not exist C. $\emptyset$ D. None of these
4	The set of complex numbers forms a group under the binary operation of	A. Addition B. none of these C. Division D. Subtraction
5	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
6	Question Image	
7	The logic in which every statement is regarded as true or false and no other possibility is called	A. Aristotelian logic B. Inductive logic C. Non-Aristotelian logic D. None of these
8	Multiplicative inverse of 0 is	A. 0 B. 1 C. ± 1 D. Does not exist
9	Question Image	
10	$A - B =$ _____	
11	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
12	Question Image	
13	If $B = \{x/x \in \mathbb{Z} \wedge -3 < x < 6\}$, then $n(B) =$	A. 5 B. $\{-3, -2, -1, 0, 1, 2, 3, 4, 5, 6\}$ C. 8 D. 9
14	Question Image	A. $a-b=ab$ B. $ab=a$ C. $a+b=ab$
15	Question Image	
16	The number of subsets of $B = \{1, 2, 3, 4, 5\}$	A. 10 B. 32 C. 16 D. 5
17	Empty set is	A. Not subset of every set B. Finite set C. Infinite set D. Not the member of real numbers
18	For any set B, $B \cup B'$ is	A. Is set B B. Set B' C. Universal set

19 The multiplicative inverse of -1 in the set $\{1-, 1\}$ is

- A. 1
- B. -1
- C. 0
- D. Does not exist

20 Which of the following is the subset of all sets

- A. Φ
- B. $\{1,2,3\}$
- C. $\{\Phi\}$
- D. $\{0\}$