

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

Sr	Questions	Answers Choice
1	Which of the following has the same value as i113	A. i B1 Ci D. 1
2	A conditional is regarded as false only when the antecedent is true and consequent is	A. True B. False C. Known D. Unknown
3	The multiplicative inverse of x such that x = 0 is	Ax B. Does not exist C. 1/x D. ±1
4	The number of different ways of describing a set is	A. One B. Two C. Three D. Four
5	Question Image	A. A B. B C. A' D. None of these
6	The set $\{x + iy \mid x, y \in Q\}$ forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Both addition and multiplication
7	The set { {a,b} } is	A. Infinite set B. Singleton set C. Two points set D. Empty set
8	Onto function is also called	A. Binjective function B. Injective function C. Surjechive function D. None of these
9	The set {1,-1,i,-i}	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication D. Not closed under multiplication
10	The set R isw.r.t subtraction	A. Not a group B. A group C. No conclusion drawn D. Non commutative group
11	If A is a subset of B and B contains at least one element which is not an element of A, then A is said to be	A. Improper subset of B B. Super set of B C. Proper subset of B D. None of these
12	If $n(X) = 18$, $n(X \cap Y) = 7$, $n(X \cup Y) = 40$ then $n(Y) =$	A. 1 B. 12 C. 5 D. 29
13	For a set A, A U Ac=	A. A B. ∅ C. Ac D. U
14	Question Image	A. 1 B. 12 C. 5 D. 29
15	Question Image	A. A = C B. A = B C. B = C

	D. None of these
A set having only one element is called	A. An empty set B. Universal set C. A singleton set D. A power set
Question Image	
Question Image	A. Singleton set B. A set with two points C. Empty set D. None of these
Question Image	
The sets {1, 2, 4} and {4, 6, 8, 10} are	A. Equal sets B. Equivalent sets C. Disjoint sets D. Over lapping sets