ECAT Mathematics Chapter 2 Set Function and Groups

Sr	Questions	Answers Choice
1	For any two sets A and, A ⊆ B if	A. x ∈ A ⇒ x ∈ B B. x ∉ A ⇒ x ∉ B C. x ∈ A ⇒ x ∉ B D. None of these
2	Question Image	
3	The set { {a,b} } is	A. Infinite set B. Singleton set C. Two points set D. Empty set
4	If C={p/p < 18, p is a prime number}, then C =	A. {2,3,4,.....17} B. {2,4,6,8.....16} C. {1,3,5,7,9,11,13,15,17} D. {3,6,9,12,15}
5	What is the number of elements of the power set of {0, 1}	A. 1 B. 2 C. 3 D. 4
6	If B ={x/x€ Z ^ - 3 < x < 6}, then n (B) =	A. 5 B. {-3,-2,-1,0,1,2,3,4,5,6} C. 8 D. 9
7	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
8	Additive inverse of -a -b is	A. a B. -a + b C. a - b D. a + b
9	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these
10	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
11	The number of proper subset of A ={a.b.c.d} is	A. 3 B. 6 C. 8 D. 15
12	Question Image	A. a-b=ab B. ab=a C. a+b=ab
13	Question Image	
14	*P∉A means*	A. Pis subset of A B. Pis an element of A C. P does not belongs to A D. A does not element of P
15	Which of the following statement is true?	A. A set is a collection of non-empty object B. A set is a collection of only numbers C. a set is any collection of things D. a set is well-defined collection of objects
		A. Commutative group w.r.t addition B. Commutative group w.r.t

16	The set of complex numbers forms	multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition
17	(A ∩ B)c =	A. A∩ B B. (A ∪ B)c C. Ac ∪ Bc D. Φ
18	Which of the following has the same value as i113	A. i B. -1 C. -i D. 1
19	If A ⊆ B then A ∪ B is	A. A B. B C. A' D. A ∩B
20	{0} is a	A. Empty set B. Singleton set C. Zero set D. Null Set