ECAT Mathematics Chapter 23

Sr	Questions	Answers Choice
1	If A = {2m/m^3= 8 , m€ Z} then A =	A. {1,8,27} B. {4} C. (2,4,6} D. {2,16,54}
2	If 0 = {1,3,5.....}, then n (0) =	A. Infinite B. Even numbers C. odd integers D. 99
3	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
4	If a = {2m/2m < 9 ,m€ p} , the (n A) =	A. {2,3,4,5,6,7,8} B. {2,4,6,8.....16} C. { 4, 6} D. {2,3,5,7}
5	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}
6	If A = {x/x is a positive integer and 4≤x<23}, then A=	A. {1,2,3,4,5,6,7} B. {4,5,6.....22} C. {1,2,3,.....23} D. {1,2,3,4,5}
7	Z is a	A. Infinite set B. Finite set C. Singleton set D. Set of all integers
8	{0} is a	A. Empty set B. Singleton set C. Zero set D. Null Set
9	Every set is an improper subset of	A. Empty set B. Equivalent set C. Itself D. Singleton set
10	Empty set is	A. Not subset of every set B. Finite set C. Infinite set D. Not the member of real numbers
11	if A = (x/x€ Q^ 0 < x < 1}, the A is	A. Infinite set B. Finite set C. Set of rational numbers D. Set of real numbers
12	If there is one-one correspondence between A and B, then we write.	A. A = B B. A⊆ B C. A⊇ B D. A ~ B
13	*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
14	The set of months in a year beginning with S.	A. {September, October, November} B. Singleton set C. Null set D. Empty set
15	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
16	If P = {x/x = p/q where p,q∈ Z and q≠ 0}, then P is the set of	A. Irrational numbers B. Even numbers C. Rational numbers D. Whole numbers
17	If S = {3,6,9,12.....}, then	A. S = Four multiples of 3 B. S = Set of even numbers C. S = Set of prime numbers D. S = All multiples of 3
18	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
19	If T = {2,4,6,8,10,12}, then	A. T = (First six natural numbers) B. T = (First six odd numbers) C. T = (First six real numbers) D. T = (First six even numbers)
20	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