

ECAT (Pre-Eng) Mathematics Chapter 2 Set, Functions and Groups

_		
Sr	Questions	Answers Choice
1	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
2	Question Image	
3	Z is the set of integers, $(z, *)$ is a group with $a * b = a + b + 1$, $a, b \subseteq G$. then inverse of a is	Aa B. a + 1 C2 -a D. None of these
4	Question Image	A. square root function B. identity function C. linear function D. quadratic function
5	If a 1-1 correspondence can be established b/w two sets A and B, then they are called	A. Equal sets B. Equivalent sets C. Over lapping sets D. None of these
6	The multiplicative inverse of -1 in the set {1-,1} is	A. 1 B1 C. ±1 D. 0 E. Does not exist
7	Which of the following sets in infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers between 3 and 10 D. The set of rational numbers between 3 and 10
8	Question Image	
9	If B-A≠φ , then n(B-A) is equal to	A. n(a)+n(c) B. n(c)-n(a) C. n(a)-n(c) D. None of these
10	If f:A→B is an injective function and second elements of no two of its ordered pairs are equal, then f is called	A. 1-1 and onto B. Bijective C. 1-1 and into D. None of these
		A. A = B
11	Question Image	B. B = C C. A = C D. None of these
12	If a set S contains "n" elements then P (S) has number of elements	A. 2 ⁿ B. 2 ²ⁿ C. 2 . n D. n ²
13	The many subset can be formed from the set {a,b,c,d}	A. 8 B. 4 C. 12 D. 16
14	Question Image	A. A is proper subset of B B. A is an improper subset of B C. A is equivalent to B D. B is subset of A
15	A disjunction of two statement p and q is true	A. p is false B. q is false C. Both p and q are false D. One of p and q is true
16	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction

		D. None of these
17	A monoid (G, *) is said to be group if	A. have identity element B. is commutative C. have inverse of each element D. None of these
18	Additive inverse of -a -b is	A. a Ba + b C. a - b D. a + b
19	Power set of difference set N-W is	A. Empty set B. Infinite set C. Singleton set D. {0,Ø}
20	Question Image	