Sets and Functions

Sr	Questions	Answers Choice
1	If B={1,2,100} and C = {2,100}, then B∩C = _____	A. {1,2} B. {1,2,100} C. {2} D. {2,1}
2	Which of the following is commutative law?	A. A∪ (B ∪ C) = (A∪ B)∪ C B. A∩ (B∩C)= (A∩B)∩C C. A∪ B = B ∩ A D. (A ∪ b)^c = A^c ∩ B^c
3	Coding formula of group data of the arithmetic mean is:	A. $\bar{X}$ = ∑fX/∑f B. $\bar{X}$ = ∑fD/∑f C. $\bar{X}$ = A + ∑fu/∑f x h D. $\bar{X}$ = A + ∑fu/∑f
4	Power set of empty set.	A. ∅ B. {a} C. {∅,{a}} D. {∅}
5	If f is a function from A to B, then f is one - one function if:	A. Range f≠ A B. Range f = B C. Dom f = A D. Second element of all ordered pairs contained in f is not repeated.
6	Which of the following is associative law of union?	A. A∪ (B ∪ C) = (A∪ B)∪ C B. A∩ (B∩C)= (A∩B)∩C C. A∪ (B∩ C) = (A∪ B)∩ (A∪ C) D. A∩(B∪ C) = (A∩B)∪(A∩C)
7	A set Q = {a/b} a, b∈ Z ^ b≠ 0} is called a set of.	A. Whole numbers B. Natural number C. Irrational numbers D. Rational numbers
8	If f: A→ B and range of f= B , then f is an.....	A. into function B. onto function C. bijective function D. function
9	Point (-1,4) , lies in the quadrant.	A. I B. II C. III D. IV
10	If union and intersection of two sets are equal then sets are.....sets.	A. Disjoint B. Overlapping C. Equal D. Super
11	A set with no element is called:	A. Subset B. Empty set C. Singleton set D. Super set
12	The domain of R = {(0, 2), (2, 3), (3, 3), (3, 4)} is:	A. {0, 3, 4} B. {0, 2, 3} C. {0, 2, 4} D. {2, 3, 4}
13	The relation {(1,2),(2,3),(3,3)(3,4)} is.	A. Onto function B. Into function C. Not a function D. One-One function.
14	The relation R = {(1,2),(2,3),(3,3),(3,4)} IS:	A. Not a function B. Onto function C. One-One function D. Into function
15	(A∩B)'= _____	A. A' ∪ B' B. A'∩B' C. A∩B

		D. A∪B
16	If A and B are disjoint sets then AUB is equal to:	A. A B. B D. BUA
17	The measures that are used to determine the degree or extent of variation in a data set are called:	A. central value B. A.M C. measures of dispersion D. median
18	If A has two elements and B has 3 elements, then number of binary relations in A x B is _____	A. 2 x 3 B. 2³ C. 2⁶ D. 2²
19	The formula of range is:	A. X_{max} - X_{min} B. X_{max} + X_{min} C. groups/wight D. none of these
20	If R= { (a,2),(b,3),(c,3) }, then Dom R = _____	A. {1,2} B. {1,2,3} C. {a,b,c} D. {a,c}