Sets and Functions

Sr	Questions	Answers Choice
1	If f: A→ B and range of f= B , then f is an.....	A. into function B. onto function C. bijective function D. function
2	A set with no element is called:	A. Subset B. Empty set C. Singleton set D. Super set
3	(A∩B)'= _____	A. A' ∪ B' B. A'∩B' C. A∩B D. A ∪ B
4	The point (-5,-7) lies in ..... quadrant.	A. I B. II C. III D. IV
5	If union and intersection of two sets are equal then sets are.....sets.	A. Disjoint B. Overlapping C. Equal D. Super
6	A collection of well-defined distinct object is called:	A. Subset B. Power set C. Set D. None of these
7	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
8	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
9	If x∈ U and x∉ A, then {x} is equal to	A. U^c B. A^c C. ∅^c D. A - U
10	A set with no element is called.	A. Subset B. Empty set C. Singleton set D. Super set
11	A subset of A x A is called..... in A.	A. Set B. Relation C. Function D. Info function.
12	(A∪B)∪C = _____	A. A ∩ (B∪C) B. (A∪B)∩C C. A∪ (B∪C) D. A∩(B∩C)
13	If A ={0,1,2}, B={2,3,4,5} , then A∪B are:	A. Empty sets B. Equal sets C. Overlapping sets D. Disjoint set
14	Which of the following is distributive property intersection over 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)
15	Number of elements in power set of {1,2,3}	A. 4 B. 6 C. 8

		D. 9
16	The formula of grouped data of the arithmetic mean is:	A. $\bar{X} = \sum X/n$ B. $\bar{X} = A + \sum fX/\sum X$ C. $\bar{X} = \sum fX/n$ D. $\bar{X} = l + n/f\ (n/2 - c)$
17	$A \subseteq B$ then A-b = _____	A. A B. B C. ⌀ D. B-A
18	Power set of empty set.	A. ⌀ B. {a} C. {⌀,{a}} D. {⌀}
19	If number of elements in se A is 3 and in set B is 2, then number or binary relations in A x B is.	A. 3 B. 4 C. 7 D. 12
20	The range of {(a,a),(b,b),(c,c) is	A. {a,b} B. {a,b,c} C. {a} D. ⌀