Sets and Functions

Sr	Questions	Answers Choice
1	(A∩B)'= _____	A. A' ∪ B' B. A'∩B' C. A∩B D. A ∪ B
2	If A⊆ B then A∪ B is equal to	A. A B. B C. ⌀ D. None of these
3	Power set of an empty set is:	B. {a}
4	Power set of an empty set is.	A. ⌀ B. {a} C. {⌀,{a}} D. {⌀}
5	The domain of {(a,b),(b,c),(c,d)} is.....	A. {a,b,c} B. {b,c,d} C. {a,b} D. {a,b,c,d}
6	The range of {(a,a),(b,b),(c,c) is	A. {a,b} B. {a,b,c} C. {a} D. ⌀
7	A collection of well-defined distinct object is called:	A. Subset B. Power set C. Set D. None of these
8	If A⊆ B then A∪ B = _____	A. A B. B C. ⌀ D. None of these
9	If A⊆ B then A - B is equal to	A. A B. B C. ⌀
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	If x∈ U and x∉ A, then {x} is equal to	A. U^c B. A^c C. ⌀^c D. A - U
13	If A= {1,2,3} , B ={4,5} and R+{(1,4),(2,5),(3,4)} then R is _____	A. One - one function from A to B B. A function A to A C. Not a funtion D. An onto function from A to B
14	If A is subset of U, then $(A^c)^c$=	A. A B. A^c C. U^c D. ⌀
15	O∩ E = ...	A. ⌀ B. O C. E D. Z
16	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
17	If B={1,2,100} and C = {2,100}, then B∩C = _____	A. {1,2} B. {1,2,100} C. {2} D. {2,1}
18	Which of the following is distributive property of union over intersection?	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)
19	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
20	If A and B are two disjoint sets then A∪ b = _____	A. A B. B C. ⌀ D. B∪ A