

Sets and Functions

Sr	Questions	Answers Choice
1	The number of element in power set {1,2,3} is.	A. 4 B. 8 C. 6 D. 9
2	A set containing no element is called.	A. subset B. Empty set C. Singleton set D. Super set
3	The relation {(a,b),(b,c),(a,d)} is.....	A. A function B. Not a function C. Range D. Domain
4	Sum of the deviations of values x from its mean is always "i.e $\sum(x-\bar{x})$ " is to equal:	A. itself B. zero C. median D. mode
5	$O \cup E = \dots\dots\dots$	A. \emptyset B. O C. E D. Z
6	A set with no element is called.	A. Subset B. Empty set C. Singleton set D. Super set
7	If A and B are two disjoint sets then $A \cup B = \dots\dots\dots$	A. A B. B C. \emptyset D. $B \cup A$
8	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}
9	If number of elements in set A is 3 and in set B is 4 then number of elements in $A \times B$ is:	A. 3 B. 4 C. 12 D. 7
10	$A \cup (B \cap C) = \dots\dots\dots$	A. $(A \cup B) \cap (A \cup C)$ B. $A \cap (B \cap C)$ C. $(A \cap B) \cup (A \cap C)$ D. $A \cup (B \cup C)$
11	the set $\{0, \pm 1, \pm 2, \pm 3, \dots\dots\dots\}$ is:	A. Set of natural numbers B. Set of whole numbers C. Set of prime numbers D. Set of integers
12	If number of elements in set, A is 3 and in set B is 2 then number of binary relations in $A \times B$ is:	A. 2^3 B. 2^6 C. 2^8 D. 2^2
13	A set having only one member.	A. Empty set B. Power set C. Singleton set D. Sub set
14	If f is a function from A to B, then f is one - one function if:	A. Range $f \neq A$ B. Range $f = B$ C. Dom $f = A$ D. Second element of all ordered pairs contained in f is not repeated.
15	Point (-1,4) , lies in the quadrant.	A. I B. II C. III D. IV

16	By definition, which of the following is a set?	A. {a,b,c,d} B. {1,2,3,2} C. {l,m,n,o} D. {0,1,2,3,1}
17	If $R = \{ (a,2), (b,3), (c,3) \}$, then $\text{Dom } R =$ _____	A. {1,2} B. {1,2,3} C. {a,b,c} D. {a,c}
18	The geometric mean of the a observations 2,4,8, is:	A. 2 B. 8 C. 4 D. no geometric mean
19	If union and intersection of two sets are equal then sets are.....sets.	A. Disjoint B. Overlapping C. Equal D. Super
20	Which of the following is De-Morgan's law?	A. $(A \cup B) \cup C = A \cup (B \cup C)$ B. $(A \cap B) \supset C \supseteq$ C. $A \supset C \supseteq B \supseteq C \supseteq$ D. $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$