

Sets and Functions

Sr	Questions	Answers Choice
1	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.
2	Which of the following is associative law of Intersection?	A. $A \cup (B \cap C) = (A \cup B) \cup C$ B. $A \cap (B \cap C) = (A \cap B) \cap C$ C. $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$ D. $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
3	If set a has 3 elements and B has 4 then $A \times B$ has _____ elements.	A. 3 B. 4 C. 12 D. 7
4	Formula of variance is group data is:	
5	if A and B are disjoint sets , then $A \cup B$ is equal to.	A. A B. B C. \emptyset D. $B \cup A$
6	Point $(-1,4)$ lies in quadrant:	A. I B. II C. III D. IV
7	if $A \cap B = \emptyset$, then set A and B aresets.	A. sub B. over kaouubg C. Disjoint D. Power
8	Which of the following is distributive property intersection over union?	A. $A \cup (B \cap C) = A \cup (B \cup C)$ B. $A \cap (B \cap C) = (A \cap B) \cap C$ C. $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$ D. $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
9	If A and B are disjoint sets then $A \cup B$ is equal to:	A. A B. B D. $B \cup A$
10	The number of elements in the power set of $\{1,2,3,4\}$.	A. 4 B. 8 C. 16 D. 0
11	A and A^c are.....Set.	A. Universal B. Overlapping C. Disjoint D. Super
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	$N \cup W = \dots\dots\dots$	A. \emptyset B. $\{\emptyset\}$ C. N D. W
14	Point $(-1, 4)$ lies in the quadrant:	A. I B. II C. III D. IV
15	Which of the following is commutative law?	A. $A \cup (B \cap C) = (A \cup B) \cup C$ B. $A \cap (B \cap C) = (A \cap B) \cap C$ C. $A \cup B = B \cap A$ D. $(A \cup b) \cap c = A \cap B \cap c$
16	The set $\{x \mid x \in A \text{ and } x \notin B\}$ is	A. $A \cup B$ B. $A \cap B$

16 The set $A = \{a, b, c, d, e\}$ is.....

- C. $A - B$
- D. $B - A$

17 The formula of group data of the median is:

- A. $l + h/f (n/2 - c)$
- B. $l + \frac{\sum f_i}{\sum f} x_n$,
- C. $l + \frac{f_{m+1} - f_{m-1}}{2f_m - f_{m-1} - f_{m+1}} (x_n - x_{m-1})$
- D. $A + \frac{\sum f_i}{\sum f} x_n$

18 If $R = \{(0,0), (8,2), (10,3), (14,12)\}$, then $\text{Dom } R =$ _____

- A. $\{0, 8, 10, 14\}$
- B. $\{0, 2, 3, 12\}$
- C. $\{8, 10, 4\}$
- D. $\{0, 10\}$

19 The data presented in the form of frequency distribution is called:

- A. distribution
- B. grouped data
- C. range data
- D. regrouped data

20 $A \subseteq B$ then $A - B =$ _____

- A. A
- B. B
- C. \emptyset
- D. $B - A$