

Sets and Functions

Sr	Questions	Answers Choice
1	If A and B are disjoint sets then $A \cup B$ is equal to:	A. A B. B D. $A \cup B$
2	Power set of an empty set is:	B. {a}
3	A set $Q = \{a/b \mid a, b \in \mathbb{Z} \wedge b \neq 0\}$ is called a set of.	A. Whole numbers B. Natural number C. Irrational numbers D. Rational numbers
4	x-coordinate of every pint on x-axis is.	A. +ve B. -ve C. zero D. 1
5	$O - E = \dots\dots\dots$	A. \emptyset B. O C. E D. Z
6	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
7	If $A \subseteq B$ and $B \subseteq A$, then	A. $A = B$ B. $A \neq B$ C. $A \cap B = \emptyset$ D. $A \cup B = \emptyset$
8	If A is subset of U, then $(A^c)^c = \dots\dots\dots$	A. A B. A^c C. U^c D. \emptyset
9	$U' = \dots\dots\dots$	A. U B. A C. A' D. ϕ
10	The complement of \emptyset is.....	A. U B. \emptyset C. Impossible D. Union
11	If f is a function from A to B, then f is one - one function if:	A. Range $f \neq B$ B. Range $f = B$ C. Dom $f = A$ D. Second element of all ordered pairs contained in f is not repeated.
12	If $B = \{1, 2, 100\}$ and $C = \{2, 100\}$, then $B \cap C = \dots\dots\dots$	A. {1,2} B. {1,2,100} C. {2} D. {2,1}
13	Which of the following is commutative law?	A. $A \cup (B \cap C) = (A \cup B) \cap C$ B. $A \cap (B \cup C) = (A \cap B) \cup C$ C. $A \cup B = B \cap A$ D. $(A \cup B) \cap C = A \cup (B \cap C)$
14	The set having only one element is called.	A. Null set B. Power set C. Singleton set D. Subset
15	A set containing no element is called.	A. subset B. Empty set C. Singleton set D. Super set

16	Power set of empty set.	B. {a} C. { \emptyset , {a}} D. { \emptyset }
17	The relation {(a,b),(b,c),(a,d)} is.....	A. A function B. Not a function C. Range D. Domain
18	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
19	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.
20	If $\{x x=p/q, q \neq 0, p, q \in \mathbb{Z}\}$ then this is a _____	A. Set of even numbers B. Set of rational number C. Set of irraional numbers D. Set of integers