

## Sets and Functions

Sr	Questions	Answers Choice
1	Power set of an empty set is:	B. {a}
2	$(A \cup B) \cup C$ is equal to	A. $A \cap (B \cup C)$ B. $(A \cup B) \cap C$ C. $A \cup (B \cup C)$ D. $A \cap (B \cap C)$
3	$O - E = \dots\dots\dots$	A. $\emptyset$ B. O C. E D. Z
4	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}
5	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
6	If set A has all its elements common with set B then set A is called.....set.	A. Sub B. Overlapping C. Disjoint D. Super
7	The number of element in power set {1.2.3} is.	A. 4 B. 8 C. 6 D. 9
8	Collection of distinct objects.	A. Subset B. Power set C. Set D. None of the
9	$N \cap W = \dots\dots\dots$	A. $\emptyset$ B. { $\emptyset$ } C. N D. W
10	The set having only one element is called:	A. Null set B. Power set C. Singleton set D. Subset
11	Which of the following is true?	A. $W \subseteq N$ B. $Z \subseteq W$ C. $N \subseteq P$ D. $P \subseteq W$
12	The range of $R = \{(1, 3), (2, 2), (3, 1), (4, 4)\}$ is:	A. {1, 2, 4} B. {3, 2, 4} C. {1, 2, 3, 4} D. {1, 3, 4}
13	When the number of observations of a set of data is even then the median formula is:	
14	$(A \cap B)^c = \dots\dots\dots$	A. $A' \cup B'$ B. $A' \cap B'$ C. $A \cap B$ D. $A \cup B$
15	The relation $\{(a,b),(b,c),(a,d)\}$ is.....	A. A function B. Not a function C. Range D. Domain
16	If two sets have some elements common but not all are called..... sets	A. Sub B. OVERLAPPING C. Disjoint D. Super

17	If $\{x = p/q, q \neq 0, p, q \in \mathbb{Z}\}$ then this is a _____	<p>A. Set of even numbers  <b>B. Set of rational number</b>  C. Set of irrational numbers  D. Set of integers</p>
18	If $A \subseteq B$ then $A - B$ is equal to	<p>A. A  B. B  <b>C. <math>\emptyset</math></b></p>
19	$A' =$ _____	<p>A. <math>\{x \in U \mid x \in A\}</math>  B. <math>\{x \in U \mid x \notin A\}</math>  C. <math>\{x \in A\}</math>  D. <math>\{x \in U \mid x \in A\}</math></p>
20	A set having only one member.	<p>A. Empty set  B. Power set  <b>C. Singleton set</b>  D. Sub set</p>