

Sets and Functions

| Sr | Questions | Answers Choice |
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| 1 | if A and B are disjoint sets , then $A \cup B$ is equal to. | A. A B. B C. \emptyset D. $B \cup A$ |
| 2 | $E - O = \dots\dots\dots$ | A. \emptyset B. O C. E D. Z |
| 3 | The relation $R = \{(1,2),(2,3),(3,3),(3,4)\}$ IS: | A. Not a function B. Onto function C. One-One function D. Into function |
| 4 | The different number of way to describe a set are. | A. 1 B. 2 C. 3 D. 4 |
| 5 | $A \cap A^c = \dots\dots\dots$ | A. U B. A^c C. \emptyset D. A |
| 6 | If A has two elements and B has 3 elements, then number of binary relations in $A \times B$ is _____ | A. 2×3 B. 2^3 C. 2^6 D. 2^2 |
| 7 | 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 |
| 8 | The geometric mean of the a observations 2,4,8, is: | A. 2 B. 8 C. 4 D. no geometric mean |
| 9 | $O - E = \dots\dots\dots$ | A. \emptyset B. O C. E D. Z |
| 10 | A set with no element is called: | A. Subset B. Empty set C. Singleton set D. Super set |
| 11 | $N \cup W = \dots\dots\dots$ | A. \emptyset B. $\{\emptyset\}$ C. N D. W |
| 12 | 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. |
| 13 | If $A \subseteq B$ the $A \cap B = \dots\dots\dots$ | A. A B. B C. \emptyset D. $A \cup B$ |
| 14 | $N \cap W = \dots\dots\dots$ | A. \emptyset B. $\{\emptyset\}$ C. N D. W |
| 15 | Point (-1,4) lies in quadrant: | A. I B. II C. III D. IV |

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- 16 The complement of \emptyset is.....
- A. U
B. \emptyset
C. Impossible
D. Union
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- 17 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. $\{0,10\}$
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- 18 A set with no element is called.
- A. Subset
B. Empty set
C. Singleton set
D. Super set
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- 19 If $x \in A$ and $x \in B$, then $\{x\}$ is equal to .
- A. $A - B$
B. $A \supset C$
C. $A \cap B$
D. $B \supset C$
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- 20 Which of the following is associative law of union?
- A. $A \cup (B \cup C) = (A \cup B) \cup C$
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. $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
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