


|  | A | $\{0,1\}$ | B | \{ 1 \} | C | $\{0,1,-1\}$ | D | $\emptyset$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q11. | Set builder form of $\{2,3,5,7,11,13,17\}$ is: |  |  |  |  |  |  |  |
|  | A | $\left\{\begin{array}{c}x: \text { is a prime number }, \\ x<19\end{array}\right\}$ |  | $\{x: x=2 n+1, n$ $\in N, n \leq 8\}$ | C | $\begin{aligned} & \left\{x: x=n^{2}+1, n\right. \\ & \in N, n \leq 5\} \end{aligned}$ | D | None of these |
| Q12. | $A=\{0,1\}, \mathrm{B}=\{x: x \in N, x \leq 2\}, C=\left\{x: x \in W, x^{2}-x=0\right\}, D=\{1,-1\}$, then : |  |  |  |  |  |  |  |
|  | A | $\mathrm{A}=\mathrm{C}$ | B | $\mathrm{A}=\mathrm{B}$ | C | $\mathrm{B}=\mathrm{C}$ | D | $A=D$ |
| Q13. | Which of the following are disjoint sets? |  |  |  |  |  |  |  |
|  | A | Set of natural numbers, set of whole numbers |  |  | B | Set of integers, set of rational numbers |  |  |
|  | C | Set of whole numbers, set of prime numbers |  |  | D | Set of odd numbers, set of even numbers |  |  |
| Q14. | If $A \subseteq B$, which of the following option is always correct? |  |  |  |  |  |  |  |
|  | A | $A \cap B=B$ | B | $A \cup B=A$ | C | $A-B=\varnothing$ | D | $B-A=\emptyset$ |
| Q15. | Two finite sets have $m$ and $n$ elements. The total number of subsets of the first set is 112 more than the total number of subsets of the second set. The values of $m$ and $n$ are: |  |  |  |  |  |  |  |
|  | A | 8 and 1 | B | 128 and 16 | C | 10 and 5 | D | 7 and 4 |
| Q16. | $4 \leq x \leq 5$ can write as: |  |  |  |  |  |  |  |
|  | A | $(4,5)$ | B | $(4,5]$ | C | [4, 5] | D | $[4,5)$ |
| Q17. | In the given Venn diagram, shaded region represents |  |  |  |  |  |  |  |
|  | A | $(A U B)^{\prime}$ | B | A'UB | C | $A-B$ | D | $B-A$ |
| Q18. | $\mathrm{A}=\{1,2\}$ and $B=\{x: x \in R, 0<x<3\}$. Then |  |  |  |  |  |  |  |
|  | A | $\mathrm{A} \cap B=\{ \} \mathrm{B} \quad$ B | B | $\mathrm{A}=\mathrm{B}$ | C | $B \subset A$ | D | $A C B$ |
| Q19. | If $A=\{x: x \in N 0<x<5\}, B=\{y: y$ is a prime number less than 8$\}$, then $B-A$ |  |  |  |  |  |  |  |
|  | A | $\{1,4\} \quad$ B | B | $\{5,7\}$ | C | $\{1,24\}$ | D | $\{2,4,5,7\}$ |
| Q20. | $A=\left\{x: x=8^{n}-7 n-1, n \in N\right\}, B=\{x ; x=49 n-49, n \in N\}$, then : |  |  |  |  |  |  |  |
|  | A | $A \subset B \quad$ B | B | $B \subset A$ | C | $\mathrm{A}=\mathrm{B}$ | D | $A \cap B=\emptyset$ |
|  | ANSWER |  |  |  |  |  |  |  |


|  | 1 | B | 2 | C | 3. | A | 4 | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5 | D | 6 | B | 7 | D | 8 | B |
|  | 9 | C | $\begin{aligned} & \mathbf{1} \\ & \mathbf{0} \end{aligned}$ | C | 11 | A | 12 | A |
|  | 13 | D | 1 | C | 15 | D | 16 | C |
|  | 17 | B | $\begin{aligned} & \mathbf{1} \\ & \mathbf{8} \end{aligned}$ | C | 19 | B | 20 | A |

