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1. A _____ is an ordered collection of objects.

- a) Relation
- b) Function
- c) Set
- d) Proposition

View Answer

Answer: c

2. The set O of odd positive integers less than 10 can be expressed by _____

- a) {1, 2, 3}
- b) {1, 3, 5, 7, 9}
- c) {1, 2, 5, 9}
- d) {1, 5, 7, 9, 11}

View Answer

Answer: b

3. Power set of empty set has exactly _____ subset.

- a) One
- b) Two
- c) Zero
- d) Three

View Answer

Answer: a

4. What is the Cartesian product of $A = \{1, 2\}$ and $B = \{a, b\}$?

- a) $\{(1, a), (1, b), (2, a), (2, b)\}$
- b) $\{(1, 1), (2, 2), (a, a), (b, b)\}$
- c) $\{(1, a), (2, a), (1, b), (2, b)\}$
- d) $\{(1, 1), (a, a), (2, a), (1, b)\}$

View Answer

Answer: c

6. What is the cardinality of the set of odd positive integers less than 10?

- a) 10
- b) 5
- c) 3
- d) 20

View Answer

Answer: b

7. Which of the following two sets are equal?

- a) $A = \{1, 2\}$ and $B = \{1\}$
- b) $A = \{1, 2\}$ and $B = \{1, 2, 3\}$
- c) $A = \{1, 2, 3\}$ and $B = \{2, 1, 3\}$
- d) $A = \{1, 2, 4\}$ and $B = \{1, 2, 3\}$

View Answer

Answer: c

8. The set of positive integers is _____

- a) Infinite
- b) Finite
- c) Subset
- d) Empty

View Answer

Answer: a

9. What is the Cardinality of the Power set of the set $\{0, 1, 2\}$.

- a) 8
- b) 6
- c) 7
- d) 9

View Answer

Answer: a

10. The members of the set $S = \{x \mid x \text{ is the square of an integer and } x < 100\}$ is

- a) $\{0, 2, 4, 5, 9, 58, 49, 56, 99, 12\}$
- b) $\{0, 1, 4, 9, 16, 25, 36, 49, 64, 81\}$
- c) $\{1, 4, 9, 16, 25, 36, 64, 81, 85, 99\}$
- d) $\{0, 1, 4, 9, 16, 25, 36, 49, 64, 121\}$

View Answer

Answer: b