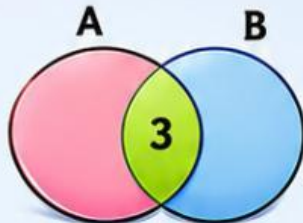


# Class 10 SETS

## 10 MCQs

1 If  $A = \{1, 2, 3\}$  and  $B = \{3, 4, 5\}$ , then  $A \cap B$  is:

- A {1, 2}
- B {3}
- C {4, 5}
- D  $\emptyset$



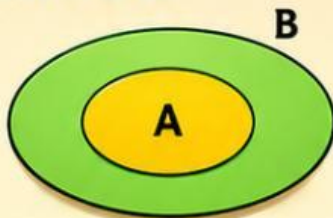
2 The number of subsets of an empty set is:

- A 0
- B 1
- C 2
- D 4



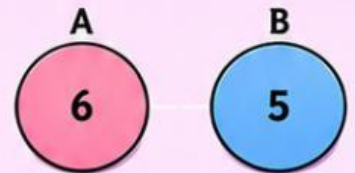
3 If  $A \subset B$ , then  $A \cap B$  is:

- A A
- B B
- C  $\emptyset$
- D U



4 If sets A and B are disjoint and  $n(A) = 6$ ,  $n(B) = 5$ , then  $n(A \cup B)$  is:

- A 5
- B 6
- C 11
- D 30



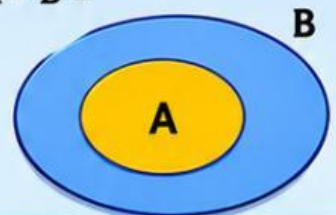
5 Which of the following is true?

- A  $\phi = 0$
- B  $\phi = \{0\}$
- C  $\phi = \{ \}$
- D Both A and B



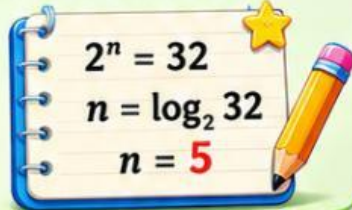
6 If  $A \subset B$ , then  $A - B =$

- A A
- B B
- C  $B - A$
- D  $\emptyset$



7 The number of subsets of a set is 32. The number of elements in the set is:

- A 2
- B 3
- C 4
- D 5



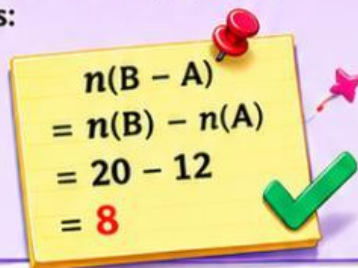
8 Which statement is false?

- A Every set is a subset of itself
- B Empty set is a subset of every set
- C Intersection of two disjoint sets is an empty set
- D Cardinal number of an infinite set is zero



9 If  $A \subset B$ ,  $n(A) = 12$  and  $n(B) = 20$ , then  $n(B - A)$  is:

- A 8
- B 12
- C 20
- D 32



10 If  $A = \{x : x^2 - 16 = 0\}$  and  $B = \{x : x^2 - 5x + 6 = 0\}$ , then  $A \cup B$  is:

- A Singleton set
- B Infinite set
- C Null set
- D Finite set

