

## # Polling Quiz MCQs

1. In a binary search algorithm worst case occurs

Option 1: if key is found at non-leaf position

Option 2: if key is found at leaf position

Option 3: if key is at root position

Option 4: if either key is found at leaf position or key does not exists.

**Correct Option: 4**

2. What is an asymptotic lower bound for binary search algorithm?

Option 1:  $O(\log n)$

Option 2:  $\Omega(n)$

Option 3:  $\theta(\log n)$

Option 4:  $\Omega(\log n)$

Option 5: None of the above

**Correct Option: 5**



3. In which of following sorting algorithm elements which are at two consecutive positions gets compared?

Option 1: Selection Sort

Option 2: Bubble Sort

Option 3: Insertion Sort

Option 4: Quick Sort

**Correct Option: 2**

4. In Selection Sort algorithm, what will the array status after 3 iterations for given input: 30 20 60 50 10 40.

Option 1: 10 20 30 40 50 60

Option 2: 10 30 20 40 50 60

Option 3: 10 20 30 60 50 40

Option 4: 10 20 30 50 60 40

**Correct Option: 3**

5. Which of the following sorting algorithm works efficiently for already sorted input sequence?

Option 1: Selection Sort

Option 2: Bubble Sort

Option 3: Insertion Sort

Option 4: Both B & C

Option 5: None of the above

**Correct Option: 3**

