

Polling Quiz MCQs:

1. In which of the following algorithm divide-and-conquer strategy is not used?

- Option 1: Binary Search
- Option 2: Merge Sort
- Option 3: Insertion Sort
- Option 4: Quick Sort
- Option 5: None of the above

Correct Option: 3

2. Which of the following statement is false about an array data structure?

- Option 1: Array elements can be accessed by using random access which is faster access.
- Option 2: Array is static
- Option 3: Array is a linear data structure
- Option 4: Addition and deletion operations are efficient on an array data structure.

Correct Option: 4

3. What is time complexity of addition and deletion operations on an array

- Option 1: $O(1)$
- Option 2: $O(n)$
- Option 3: $O(\log n)$
- Option 4: None of the above

Correct Option: 2

4. On an array data structure searching operation can be performed efficiently in _____ time.

- Option 1: $O(1)$
- Option 2: $O(\log n)$
- Option 3: $O(n \log n)$
- Option 4: $O(n^2)$
- Option 5: $O(n)$

Correct Option: 2

5. On success malloc() function returns _____ and on failure it returns _____.

- Option 1: true, false
- Option 2: starting addr of dynamically allocated block from heap section, -1
- Option 3: starting addr of dynamically allocated block from heap section, NULL
- Option 4: None of the above

Correct Option: 3