**1.**

**Which is incorrect statement about the given case : Linear Search Algorithm is applied when-**

**A. State of array is unknown.**
**B. When it is expected conclusion can be given always after n/2 iterations.**
**C. Elements are unordered.**
**D. Count of no. of elements in collection are less.**

**Answer: B**

**2.**

**An array of first n even numbers has been used in an arithmetic operation.**

**However, due to code mismanagement one element of the array has been compromised and goes missing. In order to get the missing element, minimum time complexity of the approach could be**

**A. O(n2)**
**B. O(n)**
**C. O(log n^2)**
**D. O(nlogn)**

**Answer: B**

**3.**

**What is incorrect about the sorting algorithm which can be impemented recurively?**

**A. Follows divide and conquer algorithm.**
**B. Only Merge Sort and Quick Sort can be implemented recursively.**
**C. They are better in terms of time and space complexity if there are less no. of elements.**

**D. Quick sort and Merge sort can be implemented when large volume of data set is available.**

**Answer: C**

**4.**

**Choose incorrect statement about binary search algorithm:**

**A. Recurrence for binary search is T(n) = T(n/2) + θ(1)**
**B. Divide and conquer algorithm gives the time complexity O(nlogn)**
**C. Space complexity for binary search tree is algorithm is O(1)**
**D. Binary search can only be used in sorted order**

**Answer:A**

**5.**

**In order to use quick sort for sorting Singly Linked List Choose the correct statement about the approach:**

**A. QuickSort Requires sequential forward access to elements, which is possible only in Singly LinkedList.**
**B. Quick sort can be applied only on singly linked list but can not be impelemented on array.**
**C. It is not suggested to use MergeSort more than QuickSort.**
**D. QuickSort Requires alot of random access to elements, which isn't constant in LinkedLists, thus it is avoided when sorting LinkedLists.**

**Answer:D**