Linked List

1.
Which of the following statements about linked list data structure is/are TRUE?

A. Addition and deletion of an item to/from the linked list do not require modification of the existing pointers
B. The linked list pointers do not provide an efficient way to search an item in the linked list
C. Linked list pointers always maintain the list in ascending order
D. The linked list data structure provides an efficient way to find kth element in the list

Answer: B

2.

```
struct node
{
  int data;
  struct node * next;
}
typedef struct node NODE;  NODE *ptr;
```

Which of the following c code is used to create new node?

A. ptr=(NODE*)malloc(sizeof(NODE));
B. ptr=(NODE*)malloc(NODE);
C. ptr=(NODE*)malloc(sizeof(NODE*));
D. ptr=(NODE)malloc(sizeof(NODE));

Answer: A

3.
Which of the following is false about a doubly linked list?

A. We can navigate in both the directions
B. It requires more space than a singly linked list
C. The insertion and deletion of a node take a bit complex
D. None of the above

Answer: D

4.
Which of the following operations is performed more efficiently by doubly linked list than by singly linked list?

A. Deleting a node whose location in given
B. Searching of an unsorted list for a given item
C. Inverting a node after the node with given location
D. Traversing a list to process each node

Answer: A

5.
Which of the following application makes use of a circular linked list?

A. Undo operation in a text editor
B. Recursive function calls
C. Allocating CPU to resources
D. All of the mentioned

Answer: C

6.
Which of the following is false about a circular linked list?
A. Every node has a successor
B. Time complexity of inserting a new node at the head of the list is O(1)
C. Time complexity for deleting the last node is O(n)
D. None of the mentioned

Answer: B

7.
Which of the following is a header list where the last node points back to the header node.

A. rounded header list
B. circular header list
C. common header list
D. forward header list

Answer: B

8.
What is the time required in Doubly circular linked list while jumping from head to tail and from tail to head?

A. O(n)
B. O(1)
C. O(logn)
D. None of above

Answer: B

9.
What are application of Circular Doubly linked List?

A. Managing songs playlist in media player applications.
B. Managing shopping cart in online shopping.
C. Operating System resources
D. Both A and B

Answer: D

10.
Which of the following is the disadvantage of using Circular doubly linked list?

A. Extra memory requirement
B. Traversing
C. Searching
D. None of above

Answer: A