Q. What is the time complexity to add node into the singly linear linked list at last position?
A. O(n)
B. O(n^2)
C. O(1)
D. O(log n)
Answer: A.

Q. Which of the following statement is false about singly linear linked list?
A. In a SLLL, traversal can be done only in a forward direction.
B. In a SLLL, add and delete node at last position operations takes O(n) time.
C. In SLLL, add and delete node at first position operations takes O(1) time.
D. In SLLL, previous node of any node can be accessed from it.
Answer: D

Q. Which of the following statement is false in a Linked List
A. Linked List is a dynamic data structure.
B. Addition and Deletion operations are efficient and convenient in a Linked List than in an array.
C. Linked List elements can be accessed efficiently than array elements.
D. Linked List takes more space to store n elements than array.
Answer: C

Q. Which of the following operations in a SCLL takes O(1) time?
A. Add node at last position
B. Add node at first position
C. Delete node at last position
D. Delete node at first position
E. None of the above
Answer: E

Q. Which of the following statement is false?
A. Linked List elements gets stored into the heap section.
B. Add element into a linked list at specific position takes O(1) time.
C. Searching operations is efficient on array than linked list.
D. None of the above
Answer: B

Q. Which of the following statement is false about DLLL?
A. This type of linked list can be traverse in forward as well backward direction.
B. Element can be added into this list at last position in O(1) time.
C. Element can be deleted from this list which is first position takes O(1) time.
D. Previous node of any node can be accessed.
Answer: B

Q. Which of the following is false about DCLL?
A. Traversal can be start from either first node or last node.
B. Addition and Deletion operations can be performed in O(1) time.
C. Searching can be done in O(log n) time.
D. List can be traverse in both forward and backward direction.
Answer: C

Q. Which of the following data structure is used to implement depth first traversal algorithm?
A. Array
B. Linked List
C. Stack
D. Queue
Answer: C

Q. Which of the following is not a valid operation on stack?
A. Push
B. Peek
C. Pop
D. Top
E. None of the above
Answer: D

Q. Stack data structure works in ___________ manner.
A. First In First Out
B. First In Last Out
C. Last In First Out
D. Both A & C
E. Both B & C
Answer: E

Q. Stack can be implemented by using
A. Linked List
B. Array
C. Both A & B
D. None of the above
Answer: C

Q. What is the condition to check stack is full or not in a dynamic stack?
A. top == SIZE
B. top == SIZE-1
C. top == NULL
D. None of the above
Answer: D

Q. Which of the following functions can be used to implement dynamic stack functionalities push( ) & pop( )?
A. add_last( ) & delete_first( )
B. delete_first( ) & add_last( )
C. add_last( ) & delete_last( )
D. None of the above
Answer: C

Q. Convert given infix expression into its equivalent postfix expression: **Infix expression is: (A*B)*(C/D)+E*F-G*H**

A. AB*CD/EF**+GH*-

B. AB*CD/*EF*+GH*-

C. ABCD*/*EF*+GH*-

D. AB*CD/*EF*GH+*-

Answer: B

Q. Convert given prefix expression into its equivalent postfix:

- + * / * a b c d / e f * hg

A. ab*c/d*ef/+h*g-

B. ab*c/d*ef/+hg*-

C. abc*/d*ef/+hg*-

D. ab*cd/*ef/+hg*-

Answer: B