1. In which order elements can be inserted and deleted from stack?
    a. Last In First Out
    b. First In First Out
    c. Both a and b
    d. All of the above

Answer: a

2. Which of the following data structure allows to insert and delete elements from single end?
    a. Stack
    b. Linear Queue
    c. Circular Queue
    d. All of the above

Answer: a

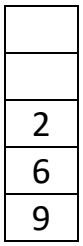
3. Which of the following is condition for stack full? (n – number of elements in array)
    a. Top ==-1
    b. Top == n
    c. Top == n -1
    d. None of the above

Answer: c

4. If following set of operations is done on stack on given data set, what will be the topmost element in the stack?

    Data set – 9, 6, 7, 3, 4, 2, 8, 1

    Operations – push, push, push, peek, push, pop, pop, push, peek, pop, push



    Stack

    a. 4
    b. 3
    c. 2
    d. None of the above

Answer: c

5. Which of the following is circular queue empty condition?
    a. front == rear && rear != -1
    b. front == rear && rear == -1
    c. front == rear && front != -1
    d. front == rear && front == -1

    Answer: b

6. In queue data structure elements can be inserted from ___ end and elements can be removed from ___ end.
    a. front, rear
    b. rear, front
    c. Both a and b
    d. None of the above

Answer: b

7. Which of the following condition shows linear queue is empty?
    a. front == rear
    b. front != rear
    c. rear < front
    d. front > rear

Answer: a

8. Select correct statement
    a. We cannot insert and delete data from both ends in deque
    b. Elements are removed from priority queue depending on their priority
    c. Both
    d. None

Answer: b

9. Prefix conversion of a * b + c – d is
    a. *-+abcd
    b. +-*abcd
    c. -+*abcd
    d. None of the above

    Answer: c

10. What is postfix conversion of given infix expression?

a. 4563*/+9+7-
b. 456*3/+9+7-
c. 456*3+/9+7-
d. None of the above

Answer: b

11. If the elements “A”, “B”, “C” and “D” are placed in a queue and are deleted one at a time, in what order will they be removed?
    a. ABCD
    b. DCBA
    c. DCAB
    d. ABDC

Answer: a

12. Consider the following operation performed on a stack of size 5. Push(1); Pop(); Push(2); Push(3); Pop(); Push(4); Pop(); Pop(); Push(5); After the completion of all operation, the number of elements present in stack is?

5

    a. 4
    b. 3
    c. 2
    d. 1

Answer: d