

# DATA STRUCTURES & ALGORITHMS (BCSE2361 PP)

**Question 1**

Not yet answered

Marked out of 1.00

Flag question

10. Which is the appropriate application of Tree Data Structure\_\_\_\_\_

Select one:

- ☐ a. Store hierarchical data, like folder structure, organization structure, XML/HTML data.
- ☐ b. Syntax Tree: Used in Compilers.
- ☒ c. All of the above
- ☐ d. Spanning Trees and shortest path trees are used in routers and bridges respectively in computer networks.

[Clear my choice](#)**Question 2**

Not yet answered

Marked out of 1.00

Flag question

9. What would be the asymptotic time complexity to add an element in the linked list?

Select one:

- ☐ a. None
- ☐ b.  $O(n)$
- ☒ c.  $O(1)$
- ☐ d.  $O(n^2)$

[Clear my choice](#)**Question 3**

Not yet answered

Marked out of 1.00

Flag question

1. In which data structure element is inserted at one end called Rear and deleted at other end called Front.

Select one:

- ☒ a. Queue
- ☐ b. Both
- ☐ c. Binary Tree
- ☐ d. Stack

[Clear my choice](#)

Quiz navigation

1	2	3	4	5	6	7	8	9
10								

[Finish attempt ...](#)Time left **0:08:25**

## Question 4

Not yet  
answeredMarked out of  
1.00

Flag question

7. In linked list each node contains minimum of two fields. One field is data field to store the data, second field is?

Select one:

- ☐ a. Node
- ☐ b. Pointer to character
- ☐ c. Pointer to integer
- ☒ d. Pointer to node

[Clear my choice](#)

## Question 5

Not yet  
answeredMarked out of  
1.00

Flag question

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

Select one:

- ☐ a. Traversing a list to process each node
- ☒ b. Deleting a node whose location is given
- ☐ c. Searching of an unsorted list for a given item
- ☐ d. Inverting a node after the node with given location

[Clear my choice](#)

## Question 6

Not yet  
answeredMarked out of  
1.00

Flag question

3. Which of the following principle does queue use?

Select one:

- ☐ a. LIFO
- ☐ b. None of the above
- ☐ c. Both
- ☒ d. FIFO

[Clear my choice](#)

## Question 7

Not yet  
answered

8. Doubly linked List is advantageous over Singly one because


Select one:

[Clear my choice](#)

Question 7

Not yet answered

Marked out of 1.00

 Flag question

8. Doubly linked List is advantageous over Singly one because

Select one:


- ☐ a. None of the above.
- ☐ b. Backward and forward navigation is easier.
- ☐ c. Backward navigation is difficult.
- ☒ d. Both A & B.

[Clear my choice](#)

Question 8

Not yet answered

Marked out of 1.00

 Flag question

2. Postfix form of following expression.

Select one:


- ☒ a. DEF + \*
- ☐ b. D + (E \* F)
- ☐ c. EF \* D +
- ☐ d. DEF \* +

[Clear my choice](#)

Question 9

Not yet answered

Marked out of 1.00

 Flag question

4. In a circular linked list

Select one:

- ☒ a. There is no beginning and no end.
- ☐ b. Components are all linked together in some sequential manner.
- ☐ c. Components are arranged hierarchically.
- ☐ d. Forward and backward traversal within the list is permitted

[Clear my choice](#)

Question 10

5. A linear collection of data elements where the linear order is given by means of a pointer is called



Marked out of  
1.00

Flag question

- ☒ a.  $DEF + *$
- ☐ b.  $D + (E * F)$
- ☐ c.  $EF * D +$
- ☐ d.  $DEF * +$

[Clear my choice](#)

Question 9

Not yet  
answeredMarked out of  
1.00

Flag question

4. In a circular linked list

Select one:

- ☒ a. There is no beginning and no end.
- ☐ b. Components are all linked together in some sequential manner.
- ☐ c. Components are arranged hierarchically.
- ☐ d. Forward and backward traversal within the list is permitted

[Clear my choice](#)

Question 10

Not yet  
answeredMarked out of  
1.00

Flag question

5. A linear collection of data elements where the linear node is given by means of pointer is called?

Select one:

- ☒ a. Linked list
- ☐ b. None
- ☐ c. Node list
- ☐ d. Primitive list

[Clear my choice](#)

Finish attempt ...