

BRAC University (Department of Computer Science and Engineering)

CSE 220 (Data Structure) for Summer 2023 Semester

Quiz 2 [CO1]

Set A

Student ID:

Section:

Name:

Full Marks: 20

Duration: 25 minutes

1. You need to perform the following operations on an array based queue where the length of the array is 5 and the starting index of front and back is 3. 7

enqueue a, enqueue b, enqueue c, dequeue, peek, enqueue d, dequeue, peek

Ans:

2. Write a Python program to delete a specific value from a given singly linked list. (for all occurrences)

6

Sample Input:

2->4->5->1->4

4

Sample Output:

2->5->1

Ans: def deleteItem(self, value):

#write code

3. Convert $(2-3+4)*(5+6*7)$ into the postfix format and evaluate the postfix expression using stack.

7

Ans:

postfix format:

Stack

Expression

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Quiz 2 [CO1]

Set B

Student ID:

Section:

Name:

Full Marks: 20

Duration: 25 minutes

1. You need to perform the following operations on an array based queue where the length of the array is 5 and starting index of front and back is 4. 7

enqueue w, enqueue x, enqueue y, dequeue, peek, enqueue z, dequeue, peek

Ans:

2. Write a Python program to delete duplicate items from a sorted singly linked list. 6

Sample Input:

2->2->4->5

Sample Output:

2->4->5

Ans: `def deleteItem(self):`

`#write code`

3. Convert $((11-3)/4)+(5*6/3)$ into the postfix format and evaluate the postfix expression using stack.

7

Ans:

postfix format:

Stack

Expression