School of Computer & Systems Sciences
Jawaharlal Nehru University, New Delhi
Mid Sem #MCA

Data structures (CS-107)
Name :

Max mark: 25
Duration: 1 hr

1. Discuss the linked list or doubly linked circular list implementation of stack and queue structures. Compare the two implementations with respect to operations for insertion and deletion of some element. (10 marks)

2. Write the program for implementation of stack through the linked list. (5 marks)

3. Write a program to remove duplicates from the singly linked list. (5 marks)

4. Performed the Quick sort on the following list. (5 marks)

   14, 15, 4, 9, 7, 18, 5, 3, 20, 16, 4, 9, 17, 14, 50