**(A)**

**Q1:** What is a Stack? Explain any two operations performed on a Stack with required algorithms using array.

**Q2:** write an algorithm to implement the push operation to the stack using linked list.

**Q3:** What is doubly linked list? Write an algorithm to add a node to it?

**Q4:** write an algorithm and a function to display a doubly linked list in reverse order.

**(B)**

**Q1:** What are the various stack operations? Explain with required functions using array.

**Q2:** write an algorithm to implement the pop operation from the stack using linked list.

**Q2:** What is doubly linked list? Write an algorithm to delete a node from it?

**Q3:** write an algorithm and a function to count the number of elements in the doubly linked list.