Data Structure and algorithms:

Internal Questions

1. Write a program that uses recursive function to perform Linear search for a Key value in a given list.
2. b) Write programs to implement Bubble sort
3. a) Write a program that uses recursive function to perform Binary search for a Key value in a given list.
4. . b) Write programs to implement Insertion sort.
5. a) Write a program that uses functions to create a singly linked list.
6. a) Write a program that uses functions to perform deletion operation on a singly linked list.
7. a) Write a program that implement stack (its operations) using arrays.
8. Write programs to implement Radix sort
9. a) Write a program that uses Stack operations to evaluate postfix expression.
10. a) Write a program that implements Queue (its operations) using linked lists.
11. a) Write a program to create or insert a node into a BST. And to delete a node from a BST.

External Questions:

1. a) Write a program that uses non recursive function to perform Linear search for a Key value in a given list.
2. b) Write programs to implement Selection sort.
3. a) Write a program that uses non-recursive function to perform Binary search for a Key value in a given list.
4. a) Write a program that uses functions to perform insertion operation on a singly linked list
5. a) Write a program to reverse elements of a single linked list
6. a) Write a program that implements stack (its operations) using Linked list.
7. a)Write a program that implement Queue (its operations) using arrays.
8. a) Write a recursive function for traversing a binary tree in preorder, inorder and postorder.
9. a) Write a program to Represent graphs using adjacency matrix.