QUESTION BANK
2022
Data Structure Using C/C++
BCA SEMESTER – 2

Q1: What is a data structure? Explain various different operations that can be performed on a data structure.

Q2. Describe Algorithm analysis and Time complexity.

Q3. What is a Stack? Write a program to implement Push() and Pop() operations.

Q4. What are Infix and Postfix expressions? Convert a postfix expression to prefix and vice versa.

Q.5 What is a Queue? Explain in detail various types of queues.

Q6. What are Link Lists? Explain in detail the various types of link lists. Write a program to insert a node in a singly link list.

Q7. What is recursion? WAP using recursion to reverse a number.

Q8. What is a Tree data structure. Explain Binary and Binary Search Trees.

Q9. Explain inorder, preorder and postorder traversal with an example.

Q10. WAP for i) Bubble Sort ii) Insertion Sort iii) Selection Sort iv) Binary Search