

SECTION-B

2. Suppose an ordered list is to be searched for finding a number. Write the algorithm along with its best case, average, and worst case performance. (4,6)
3. What is a stack? What are its applications in computer science? Write down steps to insert and remove elements from a stack. (2,3,5)
4. *A linked list does not have to be implemented with pointers only.* What is the other implementation of a linked list? Explain. (10)
5. What is a binary tree? Discuss the tree traversal approaches? (2,8)
6. Write short notes on : (5,5)
 - a) Garbage Collection.
 - b) Recursion.
7. Write down the algorithm to sort a list using selection sort. Discuss its complexity. (7,3)