GIET UNIVERSITY, GUNUPUR – 765022
B. Tech –2nd Semester (2024-2025): ASSIGNMENT
BESBS 2040– Data Structures and Algorithms
ASSIGNMENT-III

Date of issue:	**SECTION: FOR ALL SECTIONS**
Date of submission:	**Each question carries 5 marks**

SLNO	QUESTION	CO/PO
1	Design algorithm for performing PUSH and POP operations in a Linked STACK.	CO3/PO2
2	Design algorithm for performing insertion and deletion operations in a Linked QUEUE.	CO3/PO2
3	Write down the algorithm for insertion of an item at the END of a Single Linked List.	CO2/PO3
4	Design the algorithm to display all the node items of a double linked list and find the largest INFO present in it.	CO4/PO2
5	Design an algorithm to search an ITEM and then Delete that node in a Single Linked List.	CO4/PO3
6	Write down the algorithm for Reversing a Single Linked List.	CO4/PO3
7	Write algorithms for counting the nodes and Finding the sum of all Info Parts of a Double Linked List.	CO3/PO4
8	Write an algorithm to Delete a given Item from a Double Linked List.	CO4/PO3
9	Write an algorithm to Insertion at the beginning and Insertion at the end in a Double Linked List.	CO3/PO4
10	Design an algorithm to display all the Info part of Double linked list from Last node to 1st node.	CO3/PO2