



**SURESH
GYAN VIHAR
UNIVERSITY**
Accredited by NAAC with 'A' Grade

INTERNAL ASSIGNMENT - 1

Course	BCA	Data Structure Using C
Semester	3	
Total Marks:	15	

Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

- A. Write a 'C' program to add a node in a doubly linked list at the beginning and at the end.
- B. Write algorithm for deleting an element in a binary tree
- C. What are the values of front and rear?

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. Binary search
- B. Merging
- C. Spanning tree
- D. Structure
- E. Multi graph



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INTERNAL ASSIGNMENT - 2

Course	BCA	Data Structure Using C
Semester	3	
Total Marks:	15	

Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

- A. Write a C program of Binary Search algorithm with recursion.
- B. Design a stack with operations on middle element
- C. What is Merge sort? Explain time complexity of Merge sort.

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. Time complexity Vs space complexity
- B. Circular linked list
- C. Data structure
- D. Cycle in a Graph
- E. Height of a tree