



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

INTERNAL ASSIGNMENT - 1

Course	BCA	Data Structure Using C
Year	2	
Total Marks:	100	

Q.1. Write answers for all the questions below. (20 marks each – Word limit – 500)

- A.** Write Pseudo code of Binary search algorithm with recursion.
- B.** What is Quick sort Algorithm? Write the pseudo code for the Quick sort algorithm
- C.** Write a C program of Binary Search algorithm without recursion.
- D.** What is Binary search? Why is it required? Write any one application of this search technique
- E.** Define algorithm. Why Algorithms are required for program development.



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INTERNAL ASSIGNMENT - 2

Course	BCA	Data Structure Using C
Semester	2	
Total Marks:	100	

Q.1. Write answers for all the questions below. (20 marks each – Word limit – 500)

- A.** Why memory allocation is important for a program. Explain the use of malloc () and calloc() with suitable examples.
- B.** Write a C program of Binary Search algorithm with recursion.
- C.** Inserting element at the beginning, inserting element at the last and inserting element at the end of the list.
- D.** Draw various representations of Linked List
- E.** Write a C program to implement single Linked List