 SURESH GYAN VIHAR UNIVERSITY <small>Accredited by NAAC with 'A' Grade</small>		INTERNAL ASSIGNMENT - 1
Course	MCA	Data Structure Using C++
Semester	2	
Total Marks:	15	

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

- A. How can a binary tree be represented using the rotation?

- B. What is Circular Linked list? Implement Circular Linked list with example.

- C. Write an algorithm to show the procedure of insertion into a B-tree?

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


- A. Space Complexity

- B. What are asymptotic notations?

- C. What is Data Structure?

- D. Doubly Linked List

- E. Priority Queue

 SURESH GYAN VIHAR UNIVERSITY <small>Accredited by NAAC with 'A' Grade</small>		INTERNAL ASSIGNMENT - 2
Course	MCA	Data Structure Using C++
Semester	2	
Total Marks:	15	

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

- A. What is a Linked List and What are its types? Explain.
- B. Describe the steps to insert data into a singly linked list.
- C. What is a Binary search tree? How to implement it?

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

- A. infix expression
- B. What is stack?
- C. prefix expression
- D. What is the method to find the complexity of an algorithm? What is the use of space complexity and time complexity?
- E. What is a graph?