**DCA1202 Data Structure and Algorithm**

**Assignment Set-I**

1. What are the application areas of different Data Structures? And what are linear and nonlinear data structures?

2. What are Binary trees? How many types of Binary trees are there, discuss? Also discuss the application areas of binary tree.

3. Explain the algorithms based on divide and conquer strategy.

**Assignment Set-II**

4. What is dynamic memory storage and how is link list stored in memory? Write the algorithm for insertion at a given location in singly link list. Write an algorithm to create circular list.

5. Discuss knapsack problem including 0/1 and fractional knapsack.

6a. What is Stack? Discuss the Array implementation of a stack along with push() and pop() algorithms.

b. What is Queue? Discuss the Array implementation of a queue along with enqueue() and dequeue() algorithms.

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