COURSE TITLE: Data Structure & Algorithm   COURSE CODE: CSC- 221

Class: BCE-4   Shift: Morning

CLO#:1 [Knowledge]   *PLO #:1 [Engineering Knowledge]*

Course Instructor: Engr. Sidra Mudassar   Time Allowed: Half Hour

Date: 03-03-2020   Due Date: **15-03-2020**

Max. Marks: **5 Points**   Marks Obtained:

Name: **Reg No:**

Question # 1: *List* down the best, worst, average time complexity of all the data structures

[1 marks]

Question # 2: *Define* an algorithm to reverse the string using an array.   [1marks]

Question # 3: *Define* an algorithm that prints out all the subset of four elements of a set of n elements the elements of this set are sorted in a list that is input to the algorithm.   [1.5 marks]

Question # 4: A positive integer is input, *Define* a function (function name: binary) to find the binary equivalent of this number using recursion. For example, if input is 156, then binary value is 10011100 (no code is needed, just a sketch and pseudo code).   [1.5 mark]