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Daffodil International University

Daffodil International University
Department of Software Engineering
Faculty of Science & Information Technology
Quiz: 1 Semester: Summer 2026 Section: H
Course Code: SE-131 Course Title: Data Structure

Time: 30 Minutes **Marks: 15**

1. Suppose you are given an array containing the names of students: (Rafi, Sumi, Nabil, Tania, Rony, Mehedi, Farah, Shuvo).
   Write the basic part of the C code to delete the name "Mehedi" from the array. **(5 marks)**

2. Suppose you have a sorted array with 19 elements: (a, c, d, f, g, i, j, l, m, n, o, p, q, r, s, t, u, v, x).
   Apply Binary Search to find the element "p" by showing each step of middle index calculation and mention the time complexity of Binary Search. **(5 marks)**

3. Write two differences between linear and non-linear data structures with examples. **(3 marks)**

0 1 2 3 4 5 6

4. A dataset is stored as A = {5, 10, 15, 20, 25, 30}. A student wants to insert a value 18 after the third element and then delete the fifth element.
   Show the step-by-step array operations. **(2 marks)**

A[6] = A[i-1]

A[5] = A[3]

A[4] = A[i+1];