



Daffodil International University
Department of Software Engineering
Faculty of Science & Information Technology
Quiz: 2 Semester: Summer 2026 Section: H
Course Code: SE-131 Course Title: Data Structure

Time: 20 Minutes

Marks: 15

1. The array $A = [54, 20, 88, 69, 96, 18]$
 - I. Needs to be sorted in descending order using bubble Sort. Show the result of the array after each pass.
 - II. Write the main part of the C code to search "69" from the unsorted array "A" using an appropriate searching technique. (8 marks)

2. You are using a web browser. The visited web pages are stored in a stack, where the most recently visited page stays on top. The current pages in the browser history are: (7 marks)

"Google", "YouTube", "Wikipedia", "Gmail", "Facebook"

Perform the following operations and illustrate the state of the browser history stack after each step using array representation, mentioning the current **top page**:

- a) Draw the initial arrangement of pages in the history stack.
- b) Show the status of the stack after visiting a new page "Amazon".
- c) Sketch the stack after pressing the **Back** button 2 times.
- d) Draw the stack after visiting "Netflix".
- e) Sketch the stack after pressing the **Back** button 3 times.
- f) Draw the stack after visiting "ChatGPT".
- g) Sketch the stack after pressing the **Back** button 4 times.