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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**.

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