



## FINAL EXAMINATION

Semester		<b>SEPTEMBER 2025 SEMESTER</b>
Programme Name	:	<b>DIPLOMA IN COMPUTER SCIENCE</b>
Course Code & Name	:	<b>DCS2313 INTERNET DEVELOPMENT</b>
Duration	:	<b>3 HOURS</b>

### INSTRUCTIONS TO CANDIDATES:

1. Please read the instructions given in the question paper **CAREFULLY**.
2. The question paper consists of **FOUR (4)** questions.
3. Answer **ALL** questions in the question paper.
4. Answers to the questions are to be written into the examination booklet.
5. Electronic dictionaries, lecture notes, files or any unauthorised materials except writing equipment are strictly prohibited.

This question paper must be submitted along with all used and/or unused rough papers and/ or graph papers (if any). Candidates are **NOT ALLOWED** to take any examination paper(s) used or unused out of the examination hall.

### WARNING:

The Examination Board of Peninsula College Georgetown regards cheating as a very serious offence and will not hesitate to mete out the appropriate punitive actions according to the severity of the offence committed, and in accordance with the clauses stipulated in the Students' Handbook, up to and including expulsion from Peninsula College Georgetown.

*(This booklet contains 2 printed pages including this page)*

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ALLOWED TO DO SO**

Answer **ALL** questions on the separate sheet provided.

**[100 marks]**

1. a) Define client-side and server-side scripting. Give **ONE (1)** example of a programming language used for each. (5 marks)
  
- b) Draw and explain the **two-tier** and **three-tier** architectures used in web applications. (20 marks)  
Total: [25 marks]
  
2. a) Write an HTML code to display an ordered list of **FOUR (4)** different fruits. (5 marks)
  
- b) Construct a CSS code to perform the following tasks:
  - Change the background color of the page to **lightblue**.
  - Set all `<h1>` headings to **red** color. (5 marks)
  
- c) Develop a complete HTML code using internal CSS to perform the following tasks:
  - Display a heading with the text **“I love learning web development!”**.
  - Display an ordered list with three items: **HTML, CSS, JavaScript**.
  - Change the page background color to **lightgray**.
  - Make the list items display in **green**. (15 marks)Total: [25 marks]
  
3. a) Write a JavaScript code that declares **TWO (2)** variables, **name** and **age**, and displays the message **“Hello, [name]! You are [age] years old.”** in an alert box. (5 marks)
  
- b) Construct a JavaScript function named `greet()` that displays the message **“Hello, welcome to JavaScript!”** in an alert box. Ensure that the function is called. (5 marks)
  
- c) Develop a complete HTML and JavaScript code to perform the following tasks:
  - A paragraph with text **“This is the original text.”**.
  - A button labelled **“Change Text”**.
  - When the button is clicked, the paragraph text should change to **“The text has been changed!”**. (15 marks)Total: [25 marks]
  
4. a) Write a PHP script that declares **TWO (2)** numbers and displays their **sum**. (5 marks)
  
- b) Construct the complete code for both the HTML and PHP files for the following tasks:
  - Create a form that collects the user's **name** and **email**.
  - When submitted, use PHP to **display** the entered values. (20 marks)Total: [25 marks]

**- END OF QUESTIONS -**