

PAN AFRICA CHRISTIAN UNIVERSITY

CERTIFICATE IN INFORMATION AND COMMUNICATION TECHNOLOGY

END OF SEMESTER EXAMINATION

DEPARTMENT: COMPUTING AND INFORMATION TECHNOLOGY

COURSE CODE: CICT0115

COURSE TITLE: INTRODUCTION TO WEB DEVELOPMENT

CAMPUS: ROYSAMBU

EXAM DATE:

TIME:

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other Three questions in Section **B**.
- Write only your student number on the answer booklet provided.

SECTION A

(Answer ALL questions in this section)

Question 1:

a) Explain the difference between a **static website** and a **dynamic website**.

**(3
marks)**

b) Briefly describe the roles of **HTML, CSS, and JavaScript** in web development.

**(3
marks)**

c) Write a basic **HTML document structure** with a <head> and <body> section, including a title and an <h1> heading.

**(4
marks)**

SECTION B

(Answer any THREE (3) questions in this section)

Question 2:

- a) What is the purpose of an HTML form? **(2 marks)**
- b) Write an HTML form with a name, email, password input, and a submit button. **(6 marks)**
- c) Why should a form include the label element for inputs? **(2 marks)**

Question 3:

- a) Explain the difference between **inline CSS, internal CSS, and external CSS.** **(3 marks)**
- b) Write a CSS rule for a <div> with class .container that has a **blue background, white text, and centered text.** **(4 marks)**
- c) Explain the importance of the **box model** in CSS. **(3 marks)**

Question 4:

- a) Explain what JavaScript is and how it differs from HTML and CSS. **(3 marks)**
- b) Write a JavaScript function that displays an alert "Welcome to Web Development!" when a button is clicked. **(4 marks)**
- c) What is the purpose of the document.getElementById() function in JavaScript? **(3 marks)**

Question 5:

- a) What is the purpose of the <link> tag in an HTML document? **(2 marks)**
- b) Write an HTML document that links an **external CSS file** and applies CSS to a paragraph <p> with **font size 18px** and **color dark gray.** **(6 marks)**

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- c) Why is it recommended to separate **CSS from HTML** using an external stylesheet?

**(2 marks
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Question 6:

- a) Briefly describe the role of web browsers, web servers, and URLs in accessing web pages. **(4 marks)**
- b) Design the website menu below using HTML5 only. **(6 marks)**

Marks)

- **Home**
- **About**
- **Products**
- **Services**

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