# PAN AFRICA CHRISTIAN UNIVERSITY

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY AND BACHELOR OF BUSINESS INFORMATION TECHNOLOGY**

**END OF SEMESTER EXAMINATION**

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|---|---|
| **DEPARTMENT:** | **COMPUTING AND INFORMATION TECHNOLOGY** |
| **COURSE CODE:** | **BCIT108/BIT309** |
| **COURSE TITLE:** | **INTRODUCTION TO WEB DESIGN / INTERNET APPLICATION DEVELOPMENT** |
| **CAMPUS:** | **ROYSAMBU** |
| **EXAM DATE:** | **WEDNESDAY, XXXXX/APRIL,2026** |
| **TIME:** | **11:00AM-2:00PM** |

**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.

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## SECTION A

**(Answer ALL questions in this section)**

**Question One (15 marks) Compulsory**

a) Define the following terms as used in web design; **[2 Marks]**

i. Packet switching

iii. Web Browser

b) Differentiate between local area network and Wide Area Network. **[2 Marks]**

c) "HTML is a markup language". Justify this statement. **[2 Marks]**

d) Outline with clear examples, HTML tags that can be used to display the following items on a webpage.

i. An image
ii. A link
iii. A heading of a page
iv. Paragraph **[4 Marks]**

e) Write the HTML code to create the following list. **[3 Marks]**

**HOT DRINKS**

- Coffee
- Tea
  - Black Tea
  - Green Tea
- Milk

f) Outline two factors to consider when designing a website. **[2 Marks]**

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## SECTION B

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

**Question Two (15 Marks)**

a) Differentiate between ordered, unordered and definition lists. **[6 Marks]**

b) Write HTML code to produce the following list: **[9 Marks]**

I. CHAPTER ONE
   - A. Introduction
   - B. Preliminary Investigation
   - C. Existing system

II. CHAPTER TWO
   - System design
   - System coding

III. CHAPTER THREE
   - Implementation
   - User training

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**Question Three (15 Marks)**

a) Explain the structure of HTML **[3 Marks]**

b) Write a HTML code that will output the following; **[12 Marks]**

i. Document whose background color is red.

ii. Scrolling text

iii. A horizontal rule

iv. Italise a document or text

v. Superscript or subscript a text

vi. Emphasis or enlarge text.

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**Question Four (15 Marks)**

a) Distinguish between the following table attributes

i. Cell padding and cell spacing **[3 Marks]**

ii. Colspan and Rowspan **[3 Marks]**

b) Write HTML code to generate the following table:

<table>
<tr><th colspan="4">PAN AFRICA CHRISTIAN UNIVERSITY</th></tr>
<tr><td>IT</td><td rowspan="3"></td><td colspan="2">COMPUTER</td></tr>
<tr><td>BUSINESS</td><td>SOFTWARE</td><td>HARDWARE</td></tr>
<tr><td>THEOLOGY</td><td></td><td></td></tr>
</table>

**[9 Marks]**

**Question Five (15 Marks)**

a) Give the full meaning of the URL. **[3 Marks]**

b) The following is an extract from an online website

"https:/www.pacuniversity.ac.ke/home."

Explain the different parts of the domain name system above **[7 Marks]**

c) Explain the following terms in CSS; **[2 Marks]**

i. Selector

ii. Property

d) Write a CSS code that will change the font color of <h1> on a web page to black (#000000). **[3 Marks]**

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**Question Six (15 Marks)**

a) Explain the four TCP/IP layers **[8 Marks]**

b) Write HTML code to create a form with the following elements;

i. Textfield for a user's , "First Name" **[1 Mark]**

ii. Two Radio button for "Gender" (Male, Female) **[2 Marks]**

iii. Checkbox for "Subscribe" **[2 Marks]**

iv. Submit button with the value "Register" **[2 Marks]**

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