

PAN AFRICA CHRISTIAN UNIVERSITY

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

END OF SEMESTER EXAMINATION

DEPARTMENT: COMPUTING AND INFORMATION TECHNOLOGY

COURSE CODE: BSIT108/BIT309

**COURSE TITLE: INTRODUCTION TO WEB DESIGN / INTERNET
APPLICATION DEVELOPMENT**

CAMPUS: ROYSAMBU

EXAM DATE: MONDAY, XXXXX/APRIL, 2025

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.

SECTION A

(Answer ALL questions in this section)

Question 1:

a) "HTML is not classified as a programming language". Justify this statement.

[2

Marks]

b) Write a code to perform the following function in HTML coding.

[3

Marks]

- i. Inserting horizontal line
- ii. The largest level of heading
- iii. Alternating Scrolling text on the screen

c) Write the HTML code to create the following list.

[2

Marks]

- 4. Elephant
- 3. Buffalo
- 2. Giraffe
- 1. Lion

d) A company's management appointed a committee to evaluate the content to be placed in their website. Highlight three qualities of the content that the committee should consider.

[3

Marks]

SECTION B

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

Question 2:

a) Given the URL below;

↓ ↓ ↓ ↓
src="images/home_button.jpg"

i. Identify the parts labeled 1 to 4.

[4]

Marks]

b) Headings 1, 2 and 3 are to be bold, of font type Arial, white in color and have a black background. All paragraphs are to be blue in color and of size 36 points. The background color of the web page is to be pink. Implement this in a web page using:

i. External CSS styles

[3]

Marks]

ii. Internal CSS styles

[3]

Marks]

Question 3:

a) Explain the purpose of the following HTML tag and attribute:

`<a href="URL">`

[3]

Marks]

b) Write HTML code to design the webpage shown below:

[7]

Marks]

Ricotta pancake ingredients:

- 1 $\frac{1}{2}$ $\frac{3}{4}$ cups ricotta
- $\frac{3}{4}$ cup milk
- 4 eggs
- 1 cup plain *white flour*
- 1 teaspoon **baking powder**
- 75_g 50_g butter
- **pinch of salt**

Question 4:

a) Write the element that will give the following.

i. Merge two data cells that are within the same row

[2

Marks]

ii. Give the row in a table the same background colour

[2

Marks]

iii. Fix the width of a column in a table to 200 pixels

[2

Marks]

b) Write HTML tags and attributes that will display the records of students as shown in the table below. The marks of the students should be centered. **[4**

Marks]

Student Name	Mathematics	English	Kiswahili	Science
Andrew	78	77	70	66
Argwings	54	60	70	75
Emily	70	56	85	78
Jeremy	63	77	71	80

Question 5:

a) Write HTML and CSS code to produce the following list:

[10

Marks]

Aircraft Types

- I. General Aviation (piston-driven engines)
 - A. Single-Engine Aircraft
 - 1. Tail wheel
 - 2. Tricycle
 - B. Dual-Engine Aircraft
 - 1. Wing-mounted engines
 - 2. Push-pull fuselage-mounted engine
- II. Commercial Aviation (jet engines)
 - A. Dual-Engine
 - 1. Wing-mounted engines
 - 2. Fuselage-mounted engines
 - B. Tri-Engine

Question 6:

a) The HTML form comprises several elements, each serving a unique purpose. Identify the correct element(s) that matches the following function.

- i. Create a drop-down list **[1**

Mark]

- ii. Draw a box around other form elements and group the related data **[1**

Mark]

b) Isaac wrote a code for allowing users to register to a site as displayed in the picture below.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Register</title>
</head>
<body>
  <form action="index.php" method="POST">
    <label>Firstname:</label>
    <input type="text" name="firstname" placeholder="ken"><br><br>
    <label>Lastname:</label>
    <input type="text" name="lastname" placeholder="brown"><br><br>
    <label>Email:</label>
    <input type="email" name="email" placeholder="abc.com"><br><br>
    <label>Password:</label>
    <input type="password" name="password"><br><br>
    <button type="submit">Register</button>
  </form>
</body>
</html>
```

Write what will appear if the code is executed in a browser.

[8

Marks]

EOF