

PAN AFRICA CHRISTIAN UNIVERSITY

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

END OF SEMESTER EXAMINATION

DEPARTMENT: COMPUTING AND INFORMATION TECHNOLOGY

COURSE CODE: BSIT 308

COURSE TITLE: ADVANCED 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) Briefly describe Cascading Style Sheets (CSS) and explain its significance in web development [4

Marks]

- b) Describe situations where it might be necessary to place JavaScript code in an external file. Provide examples to illustrate the benefits of using external JavaScript files in web development. [6

Marks]

SECTION B

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

Question 2:

- a) Provide syntax to illustrate how JavaScript functions are defined [4

Marks]

- b) Using appropriate event handlers write a javascript code that changes the background colour when the mouse is placed and then taken off the link

[6

Marks]

Question 3:

- a) Discuss the relationship between APIs and middleware, the role played by middleware in the context of the OSI model and the benefits given to software developers by middleware [4

Marks]

- b) Explain the usage of the following HTML tags [6 Marks]

i.

ii.

iii. <HR>

Question 4:

- a) Explain the sequential steps that occur when a client makes a request for a web page. Provide a detailed description of each step, including the role of relevant technologies or protocols involved in the process. **[4**

Marks]

- b) The Internet has the potential to provide many benefits to companies in terms of communication. Describe FOUR processes that a business may carry out using the Internet explaining the application involved.

[6

Marks]

Question 5:

- a) JavaScript has three kinds of popup boxes. describe how each one of them can be applied in an organization's website to improve its usability

[6 Marks]

- b) PHP is "a weakly typed language". Explain what this statement means as regards to php variables

[4 Marks]

Question 6:

- a) Write a PHP program that outputs the statement "Have a nice weekend!" if the current day is Friday, otherwise it prints "Have a nice day!" **[4**

Marks]

- b) Using php write a code segment to bid farewell to a user with the following messages "Have a nice weekend!" if the current day is Friday, and "Have a nice Sunday!" if the current day is Sunday. Otherwise it will output "Have a nice day!"

[6 Marks]