

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF EDUCATION SCIENCE / BACHELOR OF EDUCATION ARTS**

COSC 326: WEB DESIGN, DEVELOPMENT AND ADMINISTRATION

STREAMS: BED (SCIENCE) / BED (ARTS)

TIME: 2 HOURS

DAY/DATE: THURSDAY 13/04/2023

2.30 P.M. –4.30 P.M.

Instructions

- Answer Question **ONE** and any other **TWO** questions.
- Diagrams should be used whenever they are relevant to support an answer.
- Sketch maps and diagrams may be used whenever they help to illustrate your answer
- Do not write anything on the question paper
- This is a **closed book exam**, No reference materials are allowed in the examination room
- There will be **No** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely

SECTION A

ANSWER ALL THE QUESTIONS IN THIS SECTION

QUESTION 1 [30 MARKS]

- a) Differentiate between World Wide Web and Internet. [2 Marks]
- b) Identify and explain any three dialog boxes used in JavaScript. [3 Marks]
- c) Giving an example for each, define paired tags and singular tags in HTML. [2 Marks]
- d) Highlight any three benefits of using CSS in web development. [3 Marks]
- e) Explain what XAMPP is and highlight why it is important in web design. [4 Marks]
- f) Write HTML code that shows the use of nested lists in HTML. [3 Marks]
- g) Write JavaScript code that sums two integer values and displays the result using:

- i. JavaScript in the head section. [2 Marks]
 - ii. JavaScript in the body section. [2 Marks]
 - iii. JavaScript external file. [2 Marks]
- f) An image named picture.jpg opens a webpage MyPage.html when the image is clicked.
Write the HTML code to achieve this. [4 Marks]
- g) Using an example, briefly explain what URL is and describe its structure. [3 Marks]

SECTION B

ANSWER ANY TWO QUESTIONS FROM THIS SECTION

QUESTION 2 [20 MARKS]

- a) You are using the internet to do online shopping. You visit a website that tells you that it is using cookies. Explain what is meant by the term cookies and give two uses of cookies in a website. [4 Marks]
- b) Write HTML code to reproduce the component shown below. [12 Marks]

PAYMENT FORM

FILL IN PAYMENT DETAILS

Name:

ID_Number:

SEX: MALE FEMALE

SELECT MODE OF CASH

CASH

CHEQUE

CREDIT CARD

M-PESA CARD

SELECTED CONTRY OF PAYMENT

- c) Write PHP code to find the Area of a circle. [4 Marks]

QUESTION 3 [20 MARKS]

- a) Write a program using PHP that prompts a user to enter two integers A and B. It then tests if A is greater than B. If A is less than B, it advises you to enter integers where A is greater than B. Otherwise if A is greater than B, it divides A with B and returns both the dividend and the remainder. *HINT: example if user enters A=90 and B =25, it returns 3 remainder 15.* [8 Marks]
- b) A MySQL table tbCOSC326 contains data in fields RegNo, FirstName, LastName, Age and Mark. Write mysql code to perform the following actions on the table:
- i. View all records from the table. [2 Marks]
 - ii. Insert a field MiddleName between First Name and Last Name. [2 Marks]
 - iii. Remove field Age from the table. [2 Marks]
 - iv. Rename field Mark to Marks. [2 Marks]
 - v. Delete all table data but retain the structure of the table. [2 Marks]
 - vi. Completely remove the table from the database both data and structure. [2 Marks]

QUESTION 4 [20 MARKS]

- a) Assuming a customer has to buy four items from a grocery whenever he shops. Using an array, write a PHP program that prompts the cashier to key every purchase; and if the customer has bought goods worth Ksh. 500 and above it gives a total discount of Ksh. 40 else it gives a discount of Ksh. 10 [8 Marks]
- b) List at least 6 JavaScript events and say when they are invoked. [9 Marks]
- c) Write HTML code that makes the following string to move from one side of the webpage to another. [3 Marks]

“I love Web Programming”

QUESTION 5 [20 MARKS]

- a) The background color of a webpage is to be colored black and the text colored white. Show how to do this using:
- i. Internal CSS. [2 Marks]
 - ii. External CSS. [3 Marks]
 - iii. Inline CSS. [2 Marks]
- b) Write HTML code to design a simple Login form. [8 Marks]
- c) Using PHP demonstrate the use of For Loops. [5 Marks]