

COSC 00104

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

CHUKA & EMBU

EXAMINATION FOR THE AWARD OF CERTIFICATE IN  
COMPUTER SCIENCE

COSC 00104: WEB PROGRAMMING AND ADMINISTRATION

STREAMS: CERT. COMP SCI Y1S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 16/04/2025

8.30 A.M. – 10.30 A.M.

**INSTRUCTIONS:**

- Answer question **ONE** and any other **TWO** questions in section B
- 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 QUESTION ONE (30 MARKS)**

- a) Explain what you understand by the term database administration (2 Marks)
- b) Define the following terms in relation to web programming and administration
- i. SQL (2 Marks)
  - ii. XHTML (2 Marks)
  - iii. PHP (2 Marks)
  - iv. CSS (2 Marks)
- c) LIST four web developments backend platforms used currently by web programmers in rapid developments of web applications (4 Marks)
- d) Outline the difference between a constant and a variable (4 Marks)
- e) Write down the main HTML structure with a PHP echo embedded in the main structure of your code. (6 Marks)
- f) LIST the ways in which we can include CSS in our HTML page (3 Marks)
- g) LIST THREE editors used in web programming. (3 Marks)

**SECTION B**

**QUESTION TWO (20 MARKS)**

- a) Write down the appropriate syntax of the following MySQL Statements?
  - i. Adding a record (3 Marks)
  - ii. Editing a record (3 Marks)
  - iii. Deleting a record (3 Marks)
  - iv. Updating a record (3 Marks)
- b) EXPLAIN in details how you would go about in creating a web application and hosting it for the world to see on a shared cloud server. (8 Marks)

**QUESTION THREE (20 MARKS)**

- a) Write down a PHP, IF ELSE structure. (5 Marks)
- b) Give FIVE advantages of learning PHP language for web programmers. (5 Marks)
- c) With an example ILLUSTRATE any PHP arithmetic operator. (5 Marks)
- d) SHOW the structure of While loop in PHP. (5 Marks)

**QUESTION FOUR (20 MARKS)**

- a) Illustrate a registration form structure in HTML with name, username, email, phone number and password. (10 Marks)
- b) For the above form, clearly show it's processing form that is connected to a table called registration and a database called school. (10 Marks)

**QUESTION FIVE (20 MARKS)**

- a) STATE and EXPLAIN in details TWO strategies that web administrators use to protect their web applications from security threats. (10 Marks)
  - b) EXPLAIN any five roles of a web administrator (10 Marks)
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