

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**  
**SECOND YEAR EXAMINATION FOR THE AWARD OF DIPLOMA IN**  
**COMPUTER SCIENCE**  
**COSC 00104: WEB PROGRAMMING AND ADMINISTRATION**

**STREAMS: CERT. COMP SCI Y1S2**

**TIME: 2 HOURS**

**CAMPUSES: MAIN & EMBU CAMPUSES**

**DAY/DATE MAR.....**

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**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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