



UNIVERSITY EXAMINATIONS
CHUKA & EMBU

FIRST YEAR 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: TUESDAY 14/4/2020

2.30 PM – 4.30 PM

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 (Answer ALL Questions)

Question One (30 Marks)

- Explain two differences between database driven website and static websites (4 Marks)
- Define the following terms in relation to web programming and administration
 - Website (2 Marks)
 - Data (2 Marks)
 - Web Server (2 Marks)
- List four modern day PHP programming editors (4 Marks)
- Illustrate a HTML structure with a paragraph, heading, horizontal line and a break line (6 Marks)
- How can one show the words **CLASS IS IN SESSION** pop up in a HTML page?
Illustrate your answer (4 Marks)
- List the ways in which we can include JAVASCRIPT in our HTML page (2 Marks)
- Define the term CSS and give **THREE** of its advantages (4 Marks)

SECTION B (Answer ANY TWO Questions)

Question Two (20 Marks)

- a) Explain the terms as used in web administration
 - i. Web administrator (2 Marks)
 - ii. Content management (2 Marks)
 - iii. Web security (2 Marks)
- b) List **SIX** common web security vulnerabilities (6 Marks)
- c) Explain the term Website Management in its simplest form (2 Marks)
- d) State and Explain two main strategies a web developer can use to protect their websites or web application (6 Marks)

Question Three (20 Marks)

- a) Give **FIVE** advantages of PhP as a programming language (5 Marks)
- b) Explain the process of setting up you own local web server using XAMPP on a windows environment (10 Marks)
- c) Write down the syntax of PhP with a comment (5 Marks)

Question Four (20 Marks)

- a) Define the term SQL and explain what it is used for (3 Marks)
- b) List **FIVE** MySQL Data types (5 Marks)
- c) The word CRUD is used in modern database applications development. While defining each letter, briefly describe each of the four CRUD activities (12 Marks)

Question Five (20 Marks)

- a) Write down a HTML structure with a table styled by internal CSS (10 Marks)
- b) Define the term variable and show how we can declare a variable called extranum with the value 400 in the following languages while showing the opening and closing syntax of each language (10 Marks)
 - i. PHP
 - ii. JAVASCRIPT

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