CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

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 : WEDNESDAY 11/12/2019   **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 are database driven websites   (4 Marks)

b) Define the following terms in relation to web programming and administration
    i.   Web Security   (2 Marks)
    ii.   Variable   (2 Marks)
    iii.   Constant   (2 Marks)

c) Outline the differences between a Data Type and Data   (4 Marks)

d) Illustrate how to embed a PHP code inside a HTML structure   (6 Marks)

e) How can one show the words **I LOVE JAVASCRIPT** pop up in a HTML page? Illustrate your answer   (4 Marks)

f) List the ways in which we can include CSS in our HTML page   (3 Marks)

g) Define the term PHP and give **TWO** of its advantages (3 Marks)

SECTION B

QUESTION TWO (20 MARKS)

a) How do we declare variables in the following languages?

    i.   JavaScript (2 Marks)

    ii.   PHP (2 Marks)

b) List **FOUR** MySQL Data types (4 Marks)

c) Illustrate how to perform a MySQL select statement (5 Marks)

d) Your friend Jessy has an interest in learning how to develop websites, EXPLAIN to her what tools does she need and how can she set up a local development server of her own on her laptop. (7 Marks)

QUESTION THREE (20 MARKS)

a) Write down a PHP for loop structure (5 Marks)

b) Illustrate a PHP function that adds two numbers using a local variable and returns its values (5 Marks)

c) List five PHP operators (5 Marks)

d) Using an example show a switch case PHP statement (5 Marks)

QUESTION FOUR (20 MARKS)

a) Illustrate a contact us form structure with name, email, phone number and message and clearly show your processing form that is connected to a table called contact and a database called fashion. (20 Marks)

QUESTION FIVE (20 MARKS)

a) STATE and EXPLAIN five web security challenges that web administrators face in their daily web administration work. (10 Marks)

b) EXPLAIN five roles of a web administrator (10 Marks)

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