CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

CHUKA AND EMBU CAMPUSES

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: MONDAY 05/07/2021   **8.30 A.M. – 10.30 A.M.**

INSTRUCTIONS:

SECTION A

QUESTION ONE (30 MARKS)

a) Explain each of the following terminologies:

i) DHTML   (2 Marks)

ii) CSS   (2 Marks)

iii) Loop-back   (2 Marks)

iv) XAMMP   (2 Marks)

b) Differentiate between single line comment and multiple line comment while giving example in each case.   (4 marks)

c) PHP is case sensitive support this statement?   (4 marks)

d) Write a JavaScript code that can be used to test PHP parser installation   (4marks)

e) With appropriate examples, explain three ways in which cascading style sheets can be included in an HTML page   (6 marks)

f) A client in Chuka town is interested in creating web application. As web developer explain any two factor to consider when designing system interface.   (4marks)

SECTION B (ANSWER ANY TWO QUESTIONS ONLY!!)

QUESTION TWO (20 MARKS)

a) Write a php program to display "**Hello World**"   (4 marks)

b) Write a php program to find the area of a circle   (6 Marks)

c) The IT team has been tasked with creating a web application for your organization. The team leader has tasked you with creating a simple user interface. Explain any five Schneider Mann's eight golden rules of interface design.   (10 marks)

QUESTION THREE (20 MARKS)

a) Write the command to start and stop xampp   (2 marks)

b) Write a program in php to find the salary of a person given that;

   Netpay = grosspay – deduction

   Grosspay = Basic pay + Allowance

   Deduction

   Nssf = 2000

   NHIF = 1750

   Tax = 30% of Basic pay

   Allowance (house allowance, non-practicing allowance)   (12marks)

c) Write HTML code that produces the table interface shown below.   (6 marks)

Money spent on	December	January
Tour	$241.10	$150.20
Clothes	$30.00	
Make-up		$23.00
Food	$730.40	$650.00
Sum	$1001.5	$823.2
Total	$1824.5	

QUESTION FOUR (20 MARKS)

a) Define the term data type   (1 Marks)

b) List any FOUR MySQL data types.   (2 Marks)

c) List the steps followed when starting the web server   (6 Marks)

d) Write SQL commands to perform the following

    i) Create a database named **dbstudent**   (2 Marks)

    ii) Create table named **tblbook**   (3 Marks)

    iii) Insert any TWO records to the table **tblbook**   (4 Marks)

    iv) Display all records in **tblbook**   (2 Marks)

QUESTION FIVE (20 MARKS)

a) What is web administration and who is a web administrator?   (4 Marks)

c) State and explain any THREE most common website security vulnerabilities.   (6 Marks)

b) Write a PHP code that could be used to connect to a MySQL database named '**simpledb**' given the MySQL server username and password are '**root**' and '**pswd123**' respectively.   (4 Marks)

d) In order to use a style sheet with your HTML5 document, you need to tell your document where to locate the style definitions. State and explain three ways to define styles.   (6 Marks)