CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DIPLOMA IN COMPUTER SCIENCE

COSC 0141: INTRODUCTION TO WEB PROGRAMMING

STREAMS: DIP. COMP.SCI (Y1S2)   **TIME: 2 HOURS**

DAY/DATE: FRIDAY 12/4/2019   **11.30 A.M. – 1.30 P.M.**

INSTRUCTIONS:
- Answer question **ONE** and **TWO** other questions
- 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.
- Marks are awarded for clear and concise answers.

QUESTION ONE (30 MARKS)

a) Define the URL giving the five commonly used protocols.   (5 marks)

b) Giving examples in each explain the following central concepts of software on the Internet.   (6 marks)

    i.   Domain Names

    ii.   Port Numbers

    iii.   IP Addresses

c) What is the difference between <alert()> and <confirm()> popup boxes?   (1 mark)

d) What is the difference between BACKGROUND and BGCOLOR attributes of <BODY> tag ?   (4 marks)

e) Explain the basic structure of HTML document.(3mks)

f) What are the main differences between GET, POST and REQUEST methods?   (3 marks)

g) . How can we create a session in PHP? How do we set and unset values in sessions?

(2 marks)

h) How would you connect to MySQL database from a PHP script?   (2 marks)

i) How is a constant defined in PHP?   (2 marks)

j) Define the term cookie.   (1 mark)

k) What is a marquee as an HTML markup element?
        (1 mark)

SECTION B (ANSWER ANY TWO QUESTIONS)

QUESTION TWO (20 MARKS)

a. Write the html code to create a static webpage using the table tags of HTML
        (10 marks)

Specification Table with Hours and Marks

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
I	Introduction to Internet Technology	2	4	4	0	8
II	Basics of HTML & CSS	6	0	2	6	8
III	Active Server Pages 3.0	6	4	8	0	12
IV	Server Side Coding with VBScript and XML	8	2	4	8	14
V	ASP Objects & Components	10	4	4	6	14
VI	Accessing database with ASP & ADO	10	4	4	6	14
	Total	42	18	26	26	70

b. Write JavaScript code to illustrate each of the following control structures: (6 Marks)
    i. IF … ELSE
    ii. WHILE
c. (i)   Declare and initialize an array variable **months** with the 12 months of a year

(2 Marks)

(ii)   Using a for loop, write code to output the contents of the **months** array variable.

(2 Marks)

QUESTION THREE (20 MARKS)

a. Distinguish between a primary key and a foreign key as used in databases   (4 Marks)
b. Write MySQL commands that will do the following operations: (5 Marks)
      i. Delete a database named **dbPractice**
      ii. Viewing records from table **tbstudents**
      iii. Display all databases on the database server;
      iv. Deleting column **First_Name** from the table **tbstudents**

c. Briefly explain the role of phpMyAdmin in MySQL Administration.   (4 Marks)

d. Write PHP code that will display the following details from the **personnel** table

firstname, lastname, nickname, salary.   (7Marks)

QUESTION FOUR (20 MARKS)

a.) You have completed the design and development of a website for your client and you need to put the site on the web. Discuss FIVE key considerations you would make when choosing a web hosting service provider to host the website for your client.   (10 Marks)

b.) Write a PHP program that allows a user to enter two numbers and outputs if the number is greater or lesser than the other or equal to each other.   (10 Marks)

QUESTION FIVE (20 MARKS)

a. List any **SIX** functions of JavaScript in web programming   (6 Marks)

b. Write code would you use to create a style sheet to specify 30-point blue Arial headings and all   other text in double-spaced, 10-point blue Times Roman (or the default browser font).

(4 Marks)

c. If you saved the style sheet you made for (b) above as **corporate.css**, show how would you apply it to a web page named **intro.html**.   (4 Marks)

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