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CHUKA



UNIVERSITY

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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: WEDNESDAY 7/08/2019

8.30 A.M - 10.30 A.M.

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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.

SECTION A

QUESTION ONE (30 MARKS)

- a) Using a diagrammatic ILLUSTRATION, EXPLAIN what is client - server computing and give TWO of its advantages. [6 Marks]
- b) DEFINE the internet and give THREE security threats of the internet in today's world? [4 Marks]
- c) Write down the basic structure of HTML. [3 Marks]
- d) What is the DIFFERENCE between GLOBAL and LOCAL variable in JAVASCRIPT [4 Marks]
- e) With an Example, show how one can you include JAVASCRIPT in HTML. [4 Marks]
- f) Write a CSS code for an id with the property color red. [5 Marks]
- g) DEFINE the following terms

**COSC 0141**

- i. Open database connectivity (ODBC). [2 Marks]
- ii. Active server page (ASP). [2 Marks]

**SECTION B (ANSWER ANY TWO QUESTIONS ONLY!!)**

**QUESTION TWO (20 MARKS)**

- a) Write a PHP code that connects to MySQL database. [5 Marks]
- b) Write a MySQL select statement that fetches name, phone, address and age from the table people. [5 Marks]
- c) Write a for loop JAVASCRIPT structure. [5 Marks]
- d) STATE any FIVE database technology types that you know. [5 Marks]

**QUESTION THREE (20 MARKS)**

- a) Write a JAVASCRIPT FUNCTION that adds two numbers. [5 Marks]
- b) Giving an example on each, EXPLAIN FIVE JAVASCRIPT operators. [10 Marks]
- c) With an example show how you can include CSS in an HTML file. [5 Marks]

**QUESTION FOUR (20 MARKS)**

- a) EXPLAIN any FIVE applications of the internet. [10 Marks]
- b) STATE and EXPLAIN any FIVE internet protocols. [10 Marks]

**QUESTION FIVE (20 MARKS)**

You have been awarded a tender to design, implement and manage a web based system for JUMIA E-Commerce platform client complaints query system.

- a) EXPLAIN what tools would you use to develop the system and the procedure you will follow in the implementation of the web based system for it to be accessed over the internet. [10 Marks]
- b) What are the security measures and protocols you will put in place to ensure users safety of data and the application? [5 Marks]
- c) How would you handle human errors by users using the system? [5 Marks]

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