CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

CHUKA & IGEMBE CAMPUSES

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: MONDAY 5/08/2019   **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.

SECTION A
QUESTION ONE (30 MARKS)

a) Define the following terms:
   i.   Comment in PhP   [2 Marks]
   ii.   Database   [2 Marks]
   iii.   Data   [2 Marks]

b) What's the main difference between a variable and a constant?   [4 Marks]

c) Give the structure of a HTML page with header, body, heading tag and a paragraph
                                                                           [6 Marks]

d) Write a JavaScript code saying exam is in session   [4 Marks]

e) What does the term responsive design on a web page mean and what it it's goal?   [4

Marks]

   f)   Name two modern web development frameworks/platforms   [2 Marks]

   g)   A client in Chuka town is interested in modernizing their traditional retail cosmetic business. What selling points would you convince them to adopt a database driven website [4 Marks]

SECTION B (ANSWER ANY TWO QUESTIONS ONLY!!)
QUESTION TWO (20 MARKS)
   a) What is web administration and who is a web administrator?   [4 Marks]

   b) You have just been hired by Limitless Line a clothing line company in the city and they want you to give them an online presence. Propose a solution of how you would go about it and the tools you will use to archive this.   [8 Marks]

   c) State and explain any 4 most common website security vulnerabilities.   [8 Marks]

QUESTION THREE (20 MARKS)
   a) What is PHP?   [2 marks]
   b) What are some of the things you can do with PhP?   [5 Marks]
   c) Write down the PhP syntax   [4 Marks]
   d)   What are the operators that PhP support?
[5 Marks]
   e) Using PhP operators add two numbers (Put your code in a PhP block)   [4 Marks]

QUESTION FOUR (20 MARKS)
a) Define the term data type   [2 Marks]

b) List any two MySQL data types.   [2 Marks]
c) Explain how you would connect your web application created in PhP to MySQL giving a basic syntax   [6 Marks]

d) Your organization wants to adopt a new database engine that is popular for all its web applications. As their web administrator, give your suggestion of the database engine they should adopt and give reasons why this is the best approach.   [10 marks]

QUESTION FIVE (20 MARKS)

a) The IT team has been tasked with creating a web portal for your organization. The team leader has tasked you with creating the login in and registration part of the portal. Using illustrations show how you can achieve this. [20 Marks]

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