CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS
THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE AWARD OF
BACHELOR OF SCIENCE APPLIED COMPUTER SCIENCE
ACSC 327: WEB PROGRAMMING AND ADMINISTRATION
STREAMS: BSC APPLIED COMP SCI   **TIME:2 HOURS**
DAY/DATE: MONDAY 2/12/2019   **2.30 P.M – 4.30 P.M**

INSTRUCTIONS:
- Answer Question **ONE** and any other **TWO** questions.
- Diagrams should be used whenever they are relevant to support an answer.
- Sketch maps and diagrams may be used whenever they help to illustrate your answer
- 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
ANSWER <u>ALL QUESTIONS</u> IN THIS SECTION
QUESTION ONE [30 MARKS]

a) A lady's first name is Susan. Her second name is Aketch. Write a PHP program that recognizes the two separate names then displays the string "My name is Susan Aketch"
[6 Marks]

b) Differentiate between the use of double quotes " " and single quotes ' ' in PHP strings
[4 Marks]

c) Explain the purpose of the following in a PHP program:
    i. \t   [2 Marks]
    ii. \n   [2 Marks]

d) Explain why you need the following as a web programmer:
    i. PHPMyadmin   [2 Marks]
    ii. Filezilla   [2 Marks]
    iii. MySQL Dump   [2 Marks]

e) Explain the role of Apache in web design and development   [2 Marks]

f) Mr. Joe a lecturer for ACSC 327 wants to capture CAT and Exam assessment records of students in a table. He has five students in his class. Design the needed interface using PHP [8 Marks]

SECTION B
ANSWER <u>ANY TWO</u> QUESTIONS FROM THIS SECTION
QUESTION TWO [20 MARKS]
a) Meat could be either Steak, Mutton, Chicken or Fish among others.
  i. Write a PHP array that stores the four types of meat above [5 Marks]
  ii. Write PHP code to display each item of the array [5 Marks]

b) Write a PHP Do----While loop to increment each number by 2. The first number is 0. The loop runs five times [6 Marks]

c) Repeat the task in b) above using a For Loop [4 Marks]

QUESTION THREE [20 MARKS]
a) Identify the three types of errors commonly encountered in programming. Write example PHP code to demonstrate each of these types of errors. [10 Marks]

b) A certain company has implemented a MySQL database environment. Faith is a new employee of the company and her job description requires full access to all databases and their contents in the MySQL server environment
  i. Assuming Faith chooses the username 'faith' and a password of 'faithpass' , write the MySQL code to create this user as well as their rights over the environment [5 Marks]

  ii. Faith is taking over from Samuel who is retiring. As a Database Administrator in charge, explain what you would do pertaining to Samuel and demonstrate through code the action highlighted [5 Marks]

QUESTION FOUR [20 MARKS]
a) A web page has two radio buttons Male and Female both named gender on a php page. When a user clicks the radio button labelled Male, the text "You are a man" is displayed on the web page. If the radio button labelled Female is selected, the text "You are a woman" appears on the web page. Write code to achieve this. [10 Marks]

b) Write the HTML code to display the following:

  i. 1/4 [2 Marks]

  ii. % [2 Marks]

  iii. < [2 Marks]

  iv. & [2 Marks]

  v. 2nd [2 Marks]

QUESTION FIVE [20 MARKS]

a) Demonstrate how to create connections both to a MySQL server and to a database using PHP. Explain what is happening at each point using PHP comments. [7 Marks]

b) Write a PHP function to display the string "I love web programming".[5 Marks]

c) All students have to pay Tuition Fees as well as Development Fees. Write a PHP function to determine Total Fees paid by each student. [8 Marks]