

LAIKIPIA



UNIVERSITY

FIRST SEMESTER 2018/2019 ACADEMIC YEAR

**SECOND YEAR EXAMINATION FOR THE
DEGREE OF BACHELOR SCIENCE IN
INFORMATION COMMUNICATION
TECHNOLOGY/COMPUTER SCIENCE & BCOM**

**COMP 213/COMP 408: APPLICATION FOR THE
INTERNET/WEB DESIGN AND DEVELOPMENT**

STREAM: B.SC CS/BICT

TIME: 2 HRS

DAY: MON(8.30-10.30 AM)

DATE: 10/12/2018

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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INSTRUCTIONS:

1. Do Question 1 and any other Two in Section B

SECTION A (30 Marks)**QUESTION 1**

1. What is a dynamic web page? (2 Marks)
2. Giving examples, briefly explain the meaning of the word php comments. (3 Marks)
3. Differentiate between the following terms as used in Web Applications development. Give examples where appropriate.
 - a. POST and GET (4 Marks)
 - b. Server Side Script and Client Side Script (4 Marks)
4. Outline the usage of the following operators; (4 Marks)
 - a. &&
 - b. ==
 - c. !
 - d. ||
5. What is the lifetime of variables? (3 Marks)
6. Write a python code which declares three variables, calculates their sum and average as variables and displays the results. (7 Marks)
7. Why is the GET form function considered insecure? (3 Marks)

SECTION B (20 Marks)**QUESTION 2**

1. Write the basic structure of a python function (3 Marks)
2. Re-write the following for loop into a while loop (7 Marks)



```

<?php
X = 1;
For(1=8; 1<=0; x--)
{
    Echo "The value is $x";
}
?>

```

3. Outline three basic rules when selecting a function name (3 Marks)
4. Write an if else statement that accepts a user's year of birth received from a GET form, calculates the age, displays the words "Mature" if the age is at least 18 or "Young" if the age is less than 18. (7 Marks)

QUESTION 3

1. Explain the function of the following python code; (4 Marks)


```

$sql = mysql_query("INSERT INTO book VALUES ('', '$_GET[name]',
'$_GET[author]");

```
2. Write a suitable python control structure to display the results for the students in the following order. 80% and above **A**, 60% - 79% **B**, 50%-69% **C**, Below 50% **FAIL**. (7 Marks)
3. Write a simple code to display current date and time (3 Marks)
4. Briefly explain the functions of the following html form elements (2018 2020)
 - a. Name (2 Marks)
 - b. Method (2 Marks)
 - c. Action (2 Marks)

QUESTION 4

1. Explain the reason for the following syntax errors;
 - a. Parse error: syntax error, unexpected T_STRING (2 Marks)
 - b. Parse error: syntax error, unexpected '=', expecting ';' (2 Marks)
 - c. Notice: Undefined variable: asdf (2 Marks)

2. Outline the difference between the following terms;
 - a. HTTP and HTTPS (2 Marks)
 - b. If...else and if...elseif (2 Marks)

3. The current value of x has been initialized as 5. Write an appropriate incremental loop statement that prints the statement "Hello World" at least once if the value of x is greater than 8. (8 Marks)

4. Outline the use of the python concatenation operator. (2 Marks)

QUESTION 5

1. What is the function of the following set of php methods?
 - a. \$_REQUEST[] (2 Marks)
 - b. \$_SESSION[] (2 Marks)
 - c. \$_FILES[] (2 Marks)

2. Write the PHP statements required to perform the following database operations. (14 marks)
 - a. Create a Table called employee. With four fields, **Id**(numeric, auto increment, unique, 5), **Names** (varchar, 50), **Age** (int, 3), **Gender** (varchar 50).
 - b. It should insert three rows of data consecutively. Enter any data of your choice.
 - c. Display the table on a web page for all Female employees.
 - d. Update the second row Names to "John Doe"

