# KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
## UNIVERSITY EXAMINATION, 2016/2017 ACADEMIC YEAR
## SECOND YEAR, SECOND SEMESTER EXAMINATION
## FOR THE DEGREE OF BACHELOR OF SCIENCE
## (COMPUTER SCIENCE)

Date:  9<sup>th</sup> August, 2016.

Time:  11.00am – 1.00pm

## KCS 209   - INTERNET APPLICATION PROGRAMMING

**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTION ONE  (COMPULSORY) AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE (30 MARKS)**

a)      Sketch and explain the logical units of a computer system.

(6 Marks)

b)      One of your clients has asked you to optimize their website in order to increase their sales. Describe the link building techniques you may use to optimize their website.

 (6 Marks)

c)      Describe the ways you can use to declare document styles with regard to the presentation of a website.

(3 Marks)

d)      Briefly describe five CSS media types?

(5 Marks)

e)      Write html code that produces the following output in a web browser.

This is the table caption.

| Picture of a Camel | Camel Information | | | |
|---|---|---|---|---|
| | # of Humps | Indigenous region | Spits? | Produces Wool? |
| Camels (bactrian) | 2 | Africa/Asia | Yes | Yes |
| Llamas | 1 | Andes Mountains | Yes | Yes |

(10 Marks)

## QUESTION TWO  (20 MARKS)

a)      Write a simple program which creates a dynamic welcome page that obtains the user's name, and then displays it on the page.

(10 Marks)

b)      Briefly explain the difference between inline-level and block level elements.

(4 Marks)

c)      Describe the types of errors you are likely to encounter in a programming environment.

(6 Marks)

## QUESTION THREE (20 MARKS)

a)      Write a simple script which prompts the user for two whole numbers which it then uses to perform any arithmetic calculation of your choice and also displays the results.

(5 Marks)

b)      Write HTML code that demonstrates the use of images as hyperlinks and also a hyperlink to an email address?

(5 Marks)

c)      Briefly describe five types of translators?

(10 Marks

## QUESTION FOUR  (20 MARKS)

a)      Write a JavaScript function that uses the **forloop** to sum the even integers from 2 to 100.

(10 Marks)

b)      The project manager in the project you are working on asks you to briefly describe to a team member all the forms of control needed to implement an algorithm for a program.

(6 Marks)

c)      Describe the ways used by programmers of high level languages to pass arguments to functions.

(4 Marks)

## QUESTION FIVE (20 MARKS)

a)      Write a JavaScript that implements a programmer defined function that is able to find the square of numbers 1 to 10.

(10 Marks)

b)      Using relevant examples, explain the types of lists available in web development.

(6 Marks)

d)      Briefly explain the difference between the **do while** and the **while repetition loops** using a relevant example.

(4 Marks)