JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE IN BACHELOR OF SCIENCE

2TH YEAR 1st SEMESTER 2016/2017 ACADEMIC YEAR

COURSE CODE: SCS 207

COURSE TITLE: **WEB DESIGN AND PUBLISHING**

EXAM VENUE: **STREAM: BED-SCI**

DATE: **EXAM SESSION: JAN-APRIL 2017**

TIME: 2.00 HOURS

INSTRUCTIONS:

1. Answer Question 1 (Compulsory) and ANY other two questions
2. Candidates are advised not to write on the question paper
3. Candidates must hand in their answer booklets to the invigilator while in the examination room

Question 1 [30 Marks]

a) Define and briefly describe the acronyms names
(4 Marks)

          i.   *WWW*
          ii.   *HTTP*
          iii. *HTML*
          iv. *XHTML*

b) Differentiate the following terms   (2 Marks)
        i) URL and URI

        ii) Internet and Extranet   (2 Marks)

c) Using examples, describe the difference between ordered lists and unordered lists.

                  (4 Marks)

          i.   Ordered list
          ii. Unordered List

d) Answer the questions below about CSS

        i) Describe a reason to use embedded styles. Explain where embedded styles are placed on a web page   (2 Marks)

        ii) Describe a reason to use external styles. Explain where external styles are placed and how web pages indicate they are using external styles.   (2 Marks)

e) List and briefly describe two ways of organizing a website   (4 Marks)

Question 2 [20 Marks]

a) You have been consulted to design a website for your County Government. Discuss five design principles that you should consider   (10 Marks)

b) Briefly explain your understanding of a Project Manager and his/her roles in a web development project.   (8 Marks)

c) What is the difference between client –side computer and web server computer

                  (2 Mark)

Question 3 [20 Marks]

a) Discuss three page layout design techniques used in web design   (6 Marks)

b) Briefly explain your understanding of form validation and give three examples of data that might require validation   (6 Marks)

c) Briefly explain and give examples of a Top Level Domain   (4 Marks)

Question 4 [20 Marks]

a) Discuss five design considerations for commercial websites   (10 Marks)

b) Write the HTML code to display a registration form with the aim to get the following information: **student id, full name, course, year of study, clubs joined**. The form should have a submit and a cancel button   (8 Marks)

c) What the difference between an IP address and Domain Name   (2 Mark)

Question 5 [20 Marks]

a) List and explain five techniques used to test a website   (10 Marks)

b) List five server side scripting languages used in web development, alongside their respective web server platform   (5 Marks)

c) Write the JavaScript code that prompts the user to enter their name and age. The code should display a message showing them their number of years in the next general election. NB: Use the format below to display the message.   (5 Marks)