JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE IN BACHELOR OF BUSINESS ADMINSTRATION

3ᵀᴴ YEAR 2ᴺᴰ SEMESTER 2016/2017 ACADEMIC YEAR

COURSE CODE: SCS 306

COURSE TITLE: INTERNET COMPUTING

EXAM VENUE: **STREAM:** (CH)

DATE: **EXAM SESSION: SEP-DEC 2016**

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**

SECTION A

Question 1 [30 Marks]

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

   i) ICANN

ii)   LAN

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)

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)
   i) Hierarchical
   ii) Linear

SECTION B

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 a web server?   (2 Mark)

Question 3 [20 Marks]

a) Discuss page layout design techniques used in web design   (10 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 TLD   (4 Marks)
   Top Level Domain e.g. .com for commercial organizations

Question 4 [20 Marks]

a) Discuss four design considerations for mobile 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 is an IP address?   (2 Mark)

Question 5 [20 Marks]

a) List and explain any 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)