



JARAMOGI OGINGA ODINGA OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

Course Title: Web Design and Development

Course Code: SCS 207 JAB

Academic Year: 2013/2014

Year of Study: 2 Semesters 1

TIME: 2 HOURS

Instructions:

- I. This paper contains Five questions**
- II. Question one is compulsory**
- III. Answer any other two questions**

Question One 30marks

- a) Explain the following terminologies in web design and development
- i. web browser
 - ii. Web page
 - iii. Hypertext transfer protocol
 - iv. Reverse Address Resolution Protocol. 8marks
- b) Explain the need for (CSS) cascaded Style sheet in website design and development 4 marks
- c) What do you understand by the term website and how is it hosted? 2 marks

- d) The following is a syntax for Ccss explain its parts. 2marks

```
Selector  
{  
Property; Values:  
}
```

- e) Explain the importance of the following protocols in TCP/IP model 4marks
- i. File transfer Protocol
 - ii. Telnet
- f) Explain how a website can be published over an Intranet. 4marks
- g) Distinguish between the following Table attributes 6marks
- i. Cellpadding
 - ii. Colspan
 - iii. Rowspan

Question two 20 marks

(a) Using an appropriate example, demonstrate how the listed tags can be implemented in Web Development. 8marks

- (i) <colspan>
- (ii) <Rowspan>
- (iii) <form>.....</form>
- (iv) <marquee>.....</marquee>

- (b) What is a search engine (2marks)
- (c) List any four means of searching document in the internet (4marks)
- (d) State and explain three importance of search engines as a tool for carrying research (6marks)

Question three 20marks

a) The following diagram is an extract for login into website. Do a html code to generate the diagram 10mars



- b) Write and explain a syntax to link two web pages 4marks
- c) Draw and explain the working of client server architecture 4marks
- d) Give the full meaning of the URL 2marks

Question four 20marks

- a) The following is an extract from a website show the results of races done by both men and women as a web developer you are required to do an html code to generate the extract 10marks

	Runner	Time	Origin
Men	1. Peter Teagan	2:12:34	San Antonio, Texas
	2. Kyle Wills	2:13:05	Billings, Montana
	3. Jason Wu	2:14:28	Cutler, Colorado
Women	1. Laura Blake	2:28:21	Park City, Colorado
	2. Kathy Lasker	2:30:11	Chicago, Illinois
	3. Lisa Peterson	2:31:14	Seattle, Washington

- b) Explain the following paired tags 6marks

- i. ₋₋₋₋₋
- ii. ⁻⁻⁻⁻⁻
- iii. -----

- c) Explain the term POST and GET in web data transfer 4marks

Question Five 20marks

- a) What is Domain Name System 2marks

- b) The following is an extract from an online website

<http://www.jooust.ac.ke>

Explain the different parts of the domain name system above 8marks

- c) List any six factors to consider while designing a web site 6 marks

- d) Explain class A Internet protocol addressing system 4marks