

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS 2016/2017**

**YEAR 2 SEMESTER 2 EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

**ICS 2203: WEB DESIGN AND DEVELOPMENT**

**DATE: JULY 2017 TIME: 2 HOURS**

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

a) Compare the terms INTERNET and WEB (3 marks)

b) Explain the term search engine as used in the web (3 marks)

c) Give a hyperlink example for each of the protocols listed (8 marks)

* HTTP
* HTTPS
* FTP
* E-mail

d) Mark up the following text with appropriate HTML tags in an html page (4 marks)

“Universal Studios presents” is the most important

content

“Jurassic Park” is of lesser importance than the

Previous …..

This is the last paragraph

e) Explain any four HTML tags used for formatting text when preparing web pages (4 marks)

f) Css can be added to HTML elements in 3 ways; explain each of the ways (3 marks)

g) List the five step process for effective website design (5 marks)

QUESTION TWO

a) Discuss any three weaknesses of HTML as a tool for web application development (6 marks)

b) Explain the difference between ordered and unordered lists (4 marks)

c) Write a suitable HTML list code that would output the nested list as it appears in figure below (6 marks)

A Nested List

* Coffee
* Tea
  + Black tea
  + Green tea
* Milk

d) Write a Java script code using a while loop to output 10 odd numbers, starting from number 1 (4 marks)

QUESTION THREE

Websites often display content in multiple columns as shown in figure HTMLS offers the semantic elements. Explain each of the elements (6 marks)

|  |  |
| --- | --- |
|  | |
|  | |
|  |  |
|  |
|  |  |

b) Using any suitable layout of your choice, and borrowing from the sample layout terms on (a) above, write the webpage layout code (14 marks)

QUESTION FOUR

a) Describe any three input elements used in HTML forms (6 marks)

b) Write HTML form code that outputs the following forms (14 marks)

|  |  |
| --- | --- |
| Name | Value |
| Name |  |
| Sex | Male 0  Female 0 |
| Eye color | Green |
| Check all that Apply | Over 6 feet tall  Over 200 pounds |
| submit | |

QUESTION FIVE

a) List and describe the Top 10 website design tips – checklist (10 marks)

b) What is a Java script alert box? Using an example, write a Java script alert box that gives a warning message (10 marks)