

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

**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2015/2016**

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE**

**OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

 **BBT 2101: APPLICATION PROGRAMMING FOR THE INTERNET**

**DATE: DECEMBER 2015 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER**

**TWO QUESTIONS**

**PART A:**

**QUESTION ONE (30 MARKS)**

1. Explain the following terms: [5 marks]
2. Internet
3. Hypertext links
4. Browser
5. URL
6. Web socket
7. Explain the following Internet based services available to Internet users: [3 marks]
8. Email
9. Telnet
10. FTP
11. Explain the code below and indicate its output. [4 marks]

 < ! DOCTYPE html>

 <html>

 <body>

 <L1>Javascript Statements <|L1>

 <P> statements are separated by semi colons. <|p>

 <P> The variables x, y and z are assigned the values 5, 6 and 11; <|p>

 <Pid = “demo”> <|p>

 <Script>

 Var x = 5;

 Var y = 6;

 Var z = x + y;

 Document.getElementByid (“demo”).innerHTML = z;

 < | Script >

 < | body >

 < | html >

1. Discuss the current trends in application development. [8 marks]
2. Differentiate between the following terms:

1. Unordered lists and ordered lists. [2 marks]
2. Write HTML code to create the following list. [8 marks]

 MONTHS OF THE YEAR

* January
* February
* March
* April

A few provinces of Kenya

A. Nairobi

B. Coast

C. Western

Towns in Central Province

1. Nyeri
2. Kiambu
3. Murang’a

Alligator

 A large reptile with sharp teeth

Alliance

 A union, relationship

**SECTION B:**

**QUESTION TWO (20 MARKS)**

1. i) Explain the html tags listed below. [5 marks]

< TABLE > …< | TABLE >

< CAPTION > …< | CAPTION >

< TR > …< | TR >

< TH > …< | TH >

< TD > …< | TD >

 ii) Draw a table to illustrate the following code in a html document. [5 marks]

< TABLE >

< TABLE BOARDER = 30 >

< TR >

< TD >1

< TD >2

< TD >3

< |TR >

< TR >

< TD >4

< TD >5

< TD Colspan = “2” >8

< |TR >

< TR >

< TD >9

< TD >10

< |TR >

< | TABLE >

1. Discuss any FIVE attributes of the form element. [10 marks]

 **QUESTION THREE (20 MARKS)**

1. Write an html program that displays “This is my first web page”.

 The background should be Red, Font Style Arial black, and text

 colour white. [6 marks]

1. i) Explain the difference between GIF and JPEG formats

 for HTML Image. [4 marks]

 ii) State any THREE factors when using graphics in web pages. [3 marks]

 iii) State the basic HML format for an inline image tag,

 and explain the meaning. [4 marks]

1. Write the general Format used to create frames in a HTML document. [3 marks]

**QUESTION FOUR (20 MARKS)**

1. HTML Forms creates an interface between the user and the system.

Write the code for creating the following to allow the user interact

with the system. [10 marks]

1. Vehicle: Motorbike

 Car

1. Last Name
2. Select an Option
3. Gender Male Female

Clear

Submit

1. Describe the following Internet application languages. [10 marks]
2. Dynamic HTML
3. Extended Markup language (XML)
4. CGI
5. Javascript
6. Active Server pages

**QUESTION FIVE (20 MARKS)**

1. i) Explain the meaning of a CSS. [2 marks]

ii) List and explain the THREE parts of CSS Syntax by

 giving an example. [6 marks]

iii) Explain the TWO types of CSS. [4 marks]

1. Frames allow authors to present documents in multiple views,

which may be independent windows or sub-windows.

Write the code to illustrate the frame drawn below. [8 marks]