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

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2014/2015

**STAGE II SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

**BIT 2201 : INTERNET APPLICATION PROGRAMMING**

**DATE: AUGUST 2015 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND**

**ANY OTHER TWO QUESTIONS.**

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**QUESTION ONE (30 MARKS)**

(a) List two international organizations involved in managing internet services. [2 marks]

(b) List six form objects that can be used to collect data from users.

[6 marks]

(c) Explain the following as applied to HTML table tag: [4 marks]

1. Cellpading.
2. Cellspacing.

(d) Define hypermedia. [2 marks]

(e) Develop a web page: [2 marks]

1. That contains an image link to the next page. The image file name is flowers.jpage.
2. Contain both link to the bottom page and top page.
3. Contain link to a social network twitter.com.

(f) Write a JavaScript using a for loop to output 10 numbers starting from number 1. [3 marks]

(g) Describe the JavaScript object models, giving the format of the objects. [8 marks]

(h) Explain the two areas where JavaScript uses objects. [3 marks]

**QUESTION TWO (20 MARKS)**

(a) List the technologies that make up DHTML. [3 marks]

(b) Explain ‘frameset’ and describe its use. [2 marks]

(c) Identify three locations in a HTLM page that JavaScript code can be placed. [3 marks]

(d) Write two JavaScript functions - one to accept a mark from user and another to process the mark and output the grade: the grading scheme is shown below. The first function should be called when a user clicks on a button on a web page. [12 marks]

|  |  |
| --- | --- |
| **Mark** | **Grade** |
| 0-39 | F |
| 40-69 | Pass |
| 70-100 | Credit |

**QUESTION THREE (20 MARKS)**

(a) Give the syntax used in JavaScript. [2 marks]

(b) State the scripting types and give examples. [3 marks]

(c) Outline the features of JavaScript. [3 marks]

(d) Write a JavaScript program to illustrate variable assignment using two variables that are assigned numbers, and then output their sum. [4 marks]

(e) Explain JavaScript functions, and give the general format of a JavaScript function. [4 marks]

(f) (i) Describe cookies as used in JavaScript.

(ii) Explain the limitations of cookies.

[4 marks]

**QUESTION FOUR (20 MARKS)**

(a) Describe the different methods of connecting to the internet.

[6 marks]

(b) Write HTML code that will display the following table in a browser:

|  |  |  |  |
| --- | --- | --- | --- |
| **A & B PAYROLL CO. LTD.** | | | |
| **Emp No.** | **Name** | **Hours worked** | **Rate** |
| 2010/0001 | Fatuma Ali | 24 | 2400 |
| 2010/0002 | Otieno Owuor | 19 | 1600 |
| 2010/0003 | Catherine Hamisi | 22 | 700 |
| 2010/0004 | Rashid Otieno | 19 | 2000 |

[8 marks]

(c) Explain the following: [6 marks]

1. Server-side scripting
2. Cascading style sheets
3. Inline CSS

**QUESTION FIVE (20 MARKS)**

(a) Explain the main uses of Macromedia flush. [4 marks]

(b) Explain what you understand by the statement ‘HrTP is stateless’.

[4 marks]

(c) Write HTML code to display the following form. Also write server-side script that will save the data submitted with the form in a table called ‘users’ which is contained in a database ‘personal.mdb’.

|  |
| --- |
| Name  ID No.  Address  **Hobbies Gender**    Football Male  Music Female  Swimming  Send Cancel |

[6 marks]

(d) Explain the following terms: [6 marks]

1. Web site.
2. Uniform Resource Locator (URL).
3. Rib costing.