



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

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

(CITY CAMPUS – EVENING)

CIT 204: WEB SYSTEMS & TECHNOLOGIES I

Date: 15th July, 2014

Time: 5.30 - 7.30 p.m.

INSTRUCTIONS:

- Answer Question ONE (COMPULSORY) and any other TWO questions.
- Start a new question on a new page.
- Use of MOBILE PHONE is PROHIBITED in the examination room.

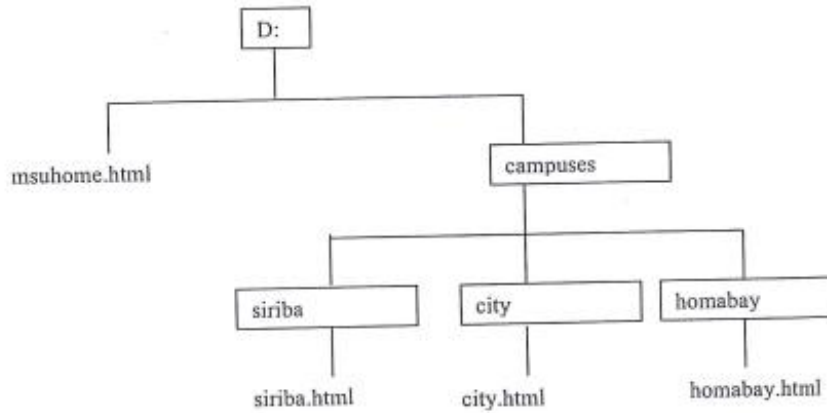


Question One (Compulsory, 30 Marks)

- (a) State three uses of a title in a web page. (3 marks)
- (b) State three differences between html and xhtml elements. (3 marks)
- (c) State three rules for naming a function in JavaScript. (3 marks)
- (d) For each problem in this set of exercise, indicate the bug(s) and their fixes, if any; otherwise report "no bug."
 - (i) `<paragraph> welcome to my homepage. </paragraph>` (2 marks)
 - (ii) `` (4 marks)
 - (iii) `<body background = "white">`
under construction.
`</body>` (2 marks)
- (e) Design the web page below (3 marks)



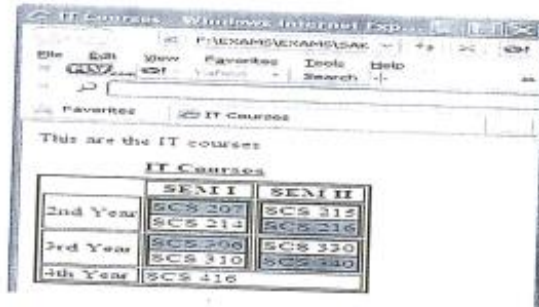
- f) Design html code that will generate the webpage below with the following specifications:
- (i) All the links should have appropriate captions as shown for the email hyperlink. This is displayed when the visitor points to a hyperlink.
 - (ii) Use the directory structure below:
- (10 marks)



Question Two (20 Marks)

(a) Write html code to render the webpage below.

(10 marks)

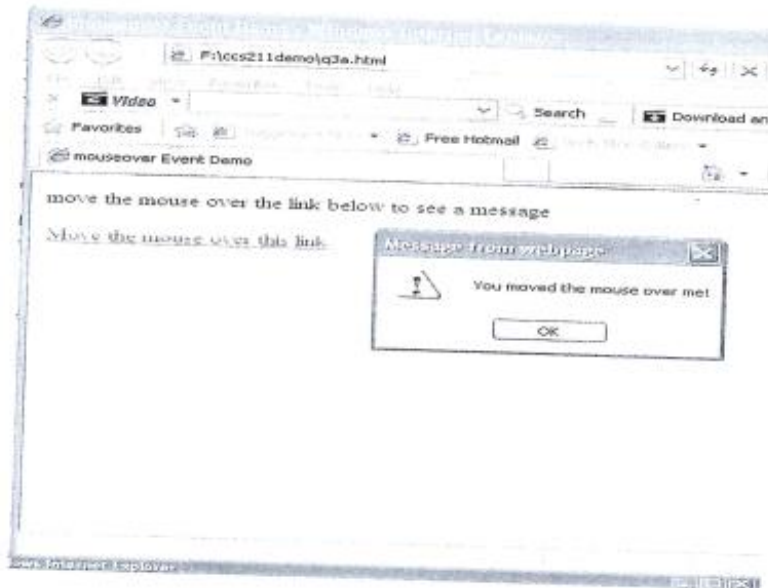


(b) Using the switch construct, write JavaScript code to grade students score in a course unit using the Maseno University grading system shown below. (10 marks)

Range	Grade
70-100	A
60-69	B
50-59	C
40-49	D
0-39	F

Question Three (20 Marks)

(a) Design the web page below such that when a user moves the mouse over the link, an alert box is generated with a message shown. (10 marks)



- (b) With reference to the website below, write JavaScript function to respond when the user enters values and clicks on the Calculate button or clears the entries when the user clicks on the Reset button.(10 marks)

MASENO UNIVERSITY STORE
CALCULATIONS ONLINE

Enter YOUR Values Then CLICK 'Calculate'

Item description	Cost per Kg(Kshs)	Quantity required(Kg)	Cost of item(Shs)
Apple	32		0
Bananas	50		0
Orange	25		0
Pear	67		0
TOTAL			0

Question Four (20 Marks)

- (a) Using a prompt box, write JavaScript code to obtain a list of five names from the user, storing each name entered in an array then write them out to the page, with each name on its own line.(6 marks)
- (b) Write html document to render the form elements below. Take note of the alignment of the form objects. (14 marks)

User Registration

Please complete the following form to register with our site.

User Name:

Password:

Gender: Male Female

How did you hear about us?:

Please select this box if you wish to be added to our mailing list. We will not pass on your details to any third party.

Question Five (20 Marks)

(a) With the help of an example, state and explain five attributes of the <embed> tag. (5 marks)

(b) Write all html documents to render the webpage with the following specifications:

- i. The webpage is called main.html
- ii. The top frame is populated by top.html and is 0.1 of the page's height
- iii. The frame to the left is 0.2 of the page's width. It is populated by left.html.
- iv. The frame to the right is populated by right.html.
- v. The frame at the bottom is populated by footer.html and is 0.2 of the page's height

(15 marks)

