



MURANGA UNIVERSITY COLLEGE

(A constituent College of Jomo Kenyatta University of Agriculture & Technology)

MAIN CAMPUS

ORDINARY UNIVERSITY EXAMINATIONS

2015/2016 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

BACHELOR OF BUSINESS INFORMATION TECHNOLOGY

COURSE CODE: HBT2302

COURSE TITLE: APPLICATION PROGRAMMING FOR INTERNET

DATE: 17th DECEMBER, 2015

TIME: 2 Hours

INSTRUCTIONS TO CANDIDATES

Answer Question ONE (1) and **any** other TWO Questions

MRUC observes ZERO tolerance to examination irregularities

This Paper Consists of 2 Printed Pages. Please Turn Over. ►

Question One

- a) Outline the **four** characteristics of the client, and four characteristics of the server in the client/server system architecture in the Internet. [8marks]
- b) Describe **six** factors which should be considered when hosting a website on the Internet. [6 marks]
- c) Explain the need of declaring a HTML Doctype on a document. [2 marks]
- di) Describe any **four** tags which can be added to the <head> element on a HTML page. [4 marks]
- ii) Explain each of the components found in the syntax while writing the following url
<http://www.w3schools.com/html/default.asp> [6 marks]
- e) With examples, describe the **four** different ways of defining Style Sheets in web programming. [4 marks]

Question Two

- a) HTML supports JavaScript. Provide the correct syntax of the four different sections of HTML where JavaScript code can be added. [8 marks]
- b) Describe the **four** main purpose of an HTML tag. [4 marks]
- c) Outline the **four** common lists which can be used when designing a HTML web page. [4 marks]
- d) Explain **two** types of an HTML background. [4 marks]

Question Three

- a) Write a HTML section of a code which demonstrates how you can create nest tables within tables in HTML. [8 marks]
- b) Describe the steps of how one can link to a location in the middle of an HTML document.[6 marks]
- ci) Differentiate between HTML and XHTML. [4 marks]

ii) Explain the main use of the Document Object Model (DOM) used on web pages. [2 marks]

Question Four

a) Consider the code below and use it to answer the questions that follow.

i) Re-write the code while removing all the mistakes. [4 marks]

ii) Write the expected output of the corrected code as displayed by the web browser.

[4 marks]

```
<ul>
<li>Coffee</li>
<li>Tea
<ul>
<li>Black tea</li>
<li>Green tea</li>
</ul>
<li>Milk</li>
</ul>
```

b) Using a function in javascript, write a program of a dynamic HTML page which prompts the user to enter a color name, then sets the background color to that value. [12 marks]