



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY (DIT 10M)
YR 2 SEM I

ECS 2205: WEB DESIGN & DEVELOPMENT

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

Answers **MUST** be written clearly within the answer booklets provided with the exam paper
Answer questions **ONE (COMPULSORY)** and any other **TWO** questions from the list of questions below

This paper consists of **THREE** printed pages

Question 1 (Compulsory)

- a) Outline the phases of web development (10 marks)
- b) Describe **FIVE** tools used for web development (10 marks)
- c) List **FIVE** applications of JavaScript in web development (5 marks)
- d) Write a JavaScript code snippet that would output the following message (5 marks)

***“Mombasa Polytechnic University College
A Center of Excellence”***

Question 2 (20 marks)

- a) Write an HTML code that would output a column table with a row for a banner and a footer (10 marks)
- b) Differentiate using code the **THREE** types of HTML lists (6 marks)
- c) Write an HTML extract that will create a paragraph of red bold italicised text called “Mombasa City” with a size of “5” and font type of “Arial” (4 marks)

Question 3 (20 marks)

- a) List **THREE** advantages and **ONE** disadvantage of CSS based layouts over table based layout (4 marks)
- b) List **FOUR** types of data used in JavaScript (4 marks)
- c) Write the HTML code create the following
 - (i) Hyperlink
 - (ii) Image link
 - (iii) Radio button
 - (iv) Check boxes
- d) Write an HTML code that would output the following form (4 marks)

Username: Password:

Question 4 (20 marks)

- a) Identify the **THREE** types of image formats that are compatible with web pages (3 marks)
- b) State the meaning of the following terms (5 marks)
 - (i) XML
 - (ii) HTML5
 - (iii) DHTML
 - (iv) DOM
 - (v) XHTML
- c) Write a JavaScript code extract that displays the following (4 marks)

The number is 0
The number is 1
The number is 2

- d) Write an HTML code to display the following (4 marks)

Computer	Programming
Using	C language

- e) Explain the meaning of the following tags (4 marks)

- (i) <!-->
- (ii) <hr/>
- (iii)
- (iv) <sub>

Question 5 (20 marks)

- a) State what you understand by Doctype declaration (2 marks)
- b) Identify **FOUR** locations in an HTML page that JavaScript code can be placed (4 marks)
- c) Describe **ONE** advantage and **THREE** disadvantages of frames as a tool for web design (4 marks)
- d) Identify **THREE** types of JavaScript alert boxes and provide a code snippet for each (10 marks)