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 2K 10J
YR II SEM I

ECS 2213 WEB DESIGN (DEVELOMPMENT)

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:
This paper consist of **TWO** sections **A** and **B**
Answer question **ONE (COMPULSORY)** and any other **TWO** questions from the list below
This paper consists of **FOUR** printed pages

SECTION A COMPULSORY (30 MARKS)

Question 1

a) Explain the main function of web browsers   (2 marks)

b) Differentiate the terms: Intranet and Internet   (3 marks)

c) Explain the following terms:
    (i)   Protocol
    (ii)   Domain name   (4 marks)

d) Describe each of the following terms in the life-cycle model   (4 marks)
    (i)   Design
    (ii)   Support

e) Write an HTML code to demonstrate text emphasis levels, use any text   (3 marks)

f) Write an HTML code to insert a graphic on a webpage named '*mypicture.jpg*' of size 300 by 400
    and mage the graphic a hyperlink to a file '*mycv.html*.'   (5 marks)

g) Write an HTML code that will result in the output given   (4 marks)

    A. Maid Elezabeth (for inspiration and support)!
    B. Sir Arthur (very good with his sword)!
    III. Sir Fanciful (and his enlisted mob)
    D. Guy the Forester (not bad with a longbow)!
    E. Assorted plague ridden peasants (good for chucking at the enemy)!

h) Explain the HTML table elements   (3 marks)

i) Explain the **THREE** form elements   (3 marks)

SECTION B (ANSWER ANY TWO QUESTIONS)

*This section consists of **FOUR** questions 20 marks each.*
Choose any two questions

Question 2 (20 marks)

a) Write an HTML code to create the table below.   (14 marks)

b) Make the items: Bike be a hyperlink to a file P1.html, Speed be a hyperlink to a file P2.html, and Price be a hyperlink to a file p3.html by modifying the code where these items appear in the code in Q2a above (6 marks)

c) Explain Common Gateway Interface (CGI), its purpose and any problem associated with it
(5 marks)

Question 3 (20 marks)

a) (i) Explain the purpose of using stylesheets

(ii) Describe the types of stylesheets (5 marks)

b) (i) State the **THREE** methods of adding style rules to HTML

(ii) In each of the methods stated above illustrate the syntax with a suitable example (8 marks)

c) With a HTML.css code to generate the output given below (7 marks)

Question 4 (20 marks)

a) Explain the following as used in forms (7 marks)

    (i)   Checkboxes
    (ii)   Radio Buttons
    (iii)   Text Fields
    (iv)   Password Fields
    (v)   Submit Buttons
    (vi)   Reset Buttons

b) Write HTML code to create the form page as shown below (13 marks)

Question 5 (20 marks)

a) Outline the major drawbacks of HTML   (7 marks)

b) Describe XML clearly as demonstrate that it is a better development from HTML   (13 marks)