THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY
YR 2 SEM II

HIGHER DIPLOMA IN COMPUTER STUDIES – HDIP 2K 10A

EIT 3111: WEB DESIGN

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section **A** and any other **TWO** questions from section **B**
This paper consists of **FOUR** printed pages

SECTION A (30 marks)

Question 1 (Compulsory)

a) Differentiate between internal links and external links (4 marks)

b) Identify the **SIX** html tags used for headings and their relative sizes (3 marks)

c) Define the **THREE** ways of including CSS within a web page (3 marks)

d) Explain how to get a web page discovered by search engines (5 marks)

e) Explain the pros and cons of HTML5 to HTML2 (6 marks)

f) Define the default colour of: (3 marks)

  i)   Visited hyperlink
  ii)   Unvisited hyperlink
  iii)   Active hyperlink

g) What is the difference between POST and GET methods of a form (2 marks)

h) Are Java and JavaScript the same? Explain (4 marks)

SECTION A (40 marks)

Question 2 (20 marks)

a) Describe any FIVE type <input> form elements (10 marks)

b) Explain the meaning of "style" and give **THREE** ways to attach it to a tag (5 marks)

c) Show the output of the following code (5 marks)
```
<frameset cols="50%,*">
        <frameset rows="50%,*">
                <frame src="frame1.html">
                <frame src="frame2.hml">
        </frameset>
        <frameset rows= "33%,33%,*">
                <frame src="frame3.html">
                <frame src="frame4.html">
                <frame src="frame5.html">
        </frameset>
</frameset>
```

Question 3 (20 marks)

a) Show the output of the following html code   (10 marks)

```
<html><head><title>Web Banking</title></head>
<body>
<hl>Web Banking</hl>
Welcome to our Web banking page!
<form method="post"action="/cgi-bin/banking.pl">
<pre>
Account Number:<input type="text"name="acct">
PIN:        <input type="password" name ="pin" size=8>
Transaction:         <select name="transaction">
                    <option selected>Account balances
                    <option>Transfers
                    <option>Show recent transactions
                    <option>Stop payment on a check
        </select>
</pre>
                    <input type="submit">  <input type="reset">
</form>
</body><html>
```

b) State the uses of the following <frame> attributes   (4 marks)
   (i)   Src
   (ii)   Name
   (iii)   Scrolling
   (iv)   Marginwidth

c) Differentiate between the following as applied to tables   (6 marks)
   (i)   Cellpadding and cellspacing
   (ii)   Colspan and rowspan
   (iii)   <td> and <th>

Question 4 (20 marks)

Write html code to produce the following   (20 marks)

TIME		SUBJECT	LECTURER
	8.00 – 10.00	SUB DESGN	MR. GONA
MORNING	10.00 – 12.00	COMPUTER ARCHITECTURE	MR. JAMES
AFTERNOON	2.00 – 4.00	COMMUNICATION SKILLS	MISS OKOTH
	4.00 – 6.00	INTERNET PROGRAMMING	PROF KOI

Question 5 (20 marks)

a) Explain the difference between the following html tags   (4 marks)

   (i)   <frameset rows="150,300,150"> and <frameset rows= "25%, 50%, 25%">
   (ii)   Alt and title attributes of the <img> element

b) Describe the decisions that need to be made on the following tasks in the process of developing a website (10 marks)

      (i)   Goals for your website
      (ii)   Target audience
      (iii)   Designing the site structure and navigation
      (iv)   Decide if any scripting or databases will be needed
      (v)   Website host

c) Show the output of the following (6 marks)

```
<table border cellspacing=0 celllpadding=5>
<caption align=bottom>Kumquat versus a poked eye, by gender</caption>

        <tr>
                <td colspan=2 rowspan=2></td>
                <th colspan= 2 align=centre>Preference</th>

        </tr>
        <tr>
                <th>Eating Kumquats</th>
                <th>Poke In The Eye</th>
        </tr>
                <tr align=center>
                <the rowspan=2>Gender</th>
                <th>Male</th>
                <td>73%</td>
                <td>27%</td>
        </tr>
                <tr align=center>
                <th>Female</th>
                <td>16%</td>
                <td>84%</td>
        </tr>
</table>
```