



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:
 - 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.html">
  </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 |
|-----------|---------------|-----------------------|------------|
| MORNING | 8.00 – 10.00 | SUB DESGN | MR. GONA |
| | 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 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 cellpadding=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>
    <th 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>
```