KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR
FIRST YEAR, FOURTH SEMESTER EXAMINATION
FOR THE DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY
DIT 1012 – INTERNET BASED PROGRAMMING

Date: 13TH DECEMBER 2022
Time: 11:30AM – 1:30PM

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS
QUESTION ONE (30 MARKS)

a) State the function of each of the following tags (3 Marks)
    i.   \<blockquote>
    ii.   \<href>
    iii.   \<hr>

b) Outline any four uses of server side web programs (4 Marks)

c) Write a HTML code that would be used to generate the following output (7 Marks)

Courses offered at best Technologies College

Courses	Duration	Revision Dates	Fees for single subject for revision
DICT	6 Months	12/08/2021	2000
DSS	7 Months	23/12/2021	1500
CIT	3 Months	10/02/2020-	1000
CEET	5 Months	13/04/2021	2000
CCAT	6 Months		1200

d) Mary a web developer would like to develop a web site. Outline three factors that she should consider when choosing the appropriate web programming language to use. (3 Marks)

e) With the aid of an example in each case, describe two types of dialogue boxes that would be used to respond to a user in JavaScript (6 Marks)

f) Interpret each of the following statement as used in HTML frames (2 Marks)
    i.   cols="200,*"
    ii.   scrolling="no"

g) The following is a HTML code. Use it to answer the questions that follows

\<INPUT type="reset" value="clear field">
**   **
\<INPUT type="image" src value="submit.gif">

    i.   Outline the function of   in the code (1 Marks)
    ii.   State the difference between reset and submit buttons in the code (4 Marks)

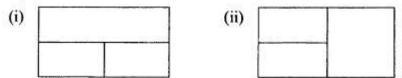## QUESTION TWO (20 MARKS)

a) Distinguish between the following terms (10 Marks)
   - i. Internet and World Wide Web
   - ii. HTML and XML
   - iii. Get and Post
   - iv. Hypertext and Hyperlink
   - v. External links and Internal links

b) With the aid of an example, outline a statement the would be used to declare a string of characters in JavaScript programming language (2Marks)

c) Write a JavaScript code embedded in HTML that accepts a password of a user. The program should output the message, "Valid Password" if password is DIT_DBT21 else displays ;"Invalid Password" (8 Marks)

QUESTION THREE (20 MARKS)

a) i. Outline four disadvantages of using frames when designing a web site (4 Marks)
   ii. Describe the three parts/components of a CSS Style giving examples (6 Marks)

b) The following table was created using HTML. Describe the attributes that have been used to modify the table so as to appear as shown in (i) and(ii) (4 Marks)

c) Write a HTML code that will display the web page below when run in a browser (6 Marks)

QUESTION FOUR (20 MARKS)

a) i. Outline four attributes associated with the image tag (4 Marks)
   ii. Explain three factors to consider when adding graphics to a web page during web design (6 Marks)

b) Write a HTML code that would be used to display the content of the links on a Frame having three rows of heights 20% ,60%, and 20% respectively when run on a browser (6 Marks)

c) Explain a circumstances under which the following event handlers may be used in a JavaScript program (4 Marks)
   - i. Onmouseover
   - ii. OnClick

QUESTION FIVE (20 MARKS)

a) Outline the function of each of the following tags as used in HTML (4 Marks)

    i.   <!...>

    ii.   <a>

    iii.   <frameset>

    iv.   <strike>

b) Planning for website development is an essential step in web development. Explain five guiding principles of website planning. (10 Marks)

c) The following is a HTML code. Use it to answer the questions that follow:

```
<html>
<table border=1 cell spacing=10 cell padding=5>
<tr>
<td>Name 1</td>
<td>Name 2</td>
</tr>
<tr>
<td>Name 3</td>
<td>Name 4</td>
</tr>
</table>
</html>
```

    i. Explain the function of each of Cell spacing and Cell padding as used in the code (4 Marks)

    ii. Sketch the output when the code is run in browser (2 Marks)