JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEM
DIPLOMA IN LINUX ENGINEERING
KISUMU CAMPUS
YEAR 1ST SEMESTER 1
SEPTEMBER/DECEMBER 2022
ACADEMIC YEAR
KISUMU CAMPUS

COURSE CODE: ICT 2115

COURSE TITLE: INTRODUCTION TO WEB PROGRAMMING

EXAM VENUE: STREAM

DATE: EXAM SESSION

TIME: 2HOURS

INSTRUCTIONS

1. *Answer question* **ONE (compulsory)** *and any other* **Two** *questions.*
2. *Candidates are advised not to write on the question paper*
3. *Candidates must hand in their answer booklet to the invigilator while in the examination room*
4. ***The papers consists of three printed pages.***

QUESTION ONE (30MARKS)

a) Write the acronym **HTML** in full. (4mks)

b) Write down the output for the code below. (4mks)

```
<ul>
<li> Coffee </li>
<li>Mick</li>
</ul>
```

c) Define the following terms as used in web programming

i) Internet (2mks)

ii) WWW (2mks)

iii) Text (2mks)

iv) <th> (2mks)

d) Give **three** examples of web scripting languages used with web developers. (3mks)

e) Identify the **file** name and **extension**. (2mks)

Amos **.**html

QUESTION TWO (20MARKS)

a) Differentiate between **static** web site and **Dynamic** website. (4mks)

b) State **two** advantages and **two** disadvantages of static website (4mks)

c) Give **two** types of dynamic web sites. (2mks)

d) What are the **four** applications of dynamic websites? (4mks)

e) Define the following terms:

a) Web server (2mks)

b) Open source (2mks)

c) CSS (2mks)

QUESTION THREE (20MARKS)

a) Define OSI model. (2mks)

b) Explain **seven** layers of OSI model. (14mks)

c) Define protocol and give **two** examples of protocol. (4mks)

QUESTION FOUR (20 MARKS)

a) What is html file? (2mks)

b) Study the html code below and use it to answer the questions that follows:

```
<table border = "1">
<tr>
<th>Heading </th >
<th>Another Heading </th>
</tr>
<tr>
<td> row 1, cell 1 </td>
<td> row 1, cell 2 </td >
</tr>
<tr>
<td> row 2, cell 1 </td>
<td > row 2, cell 2</td>
< /tr>
</table>
```

Write the output for the above code. (18mks)

QUESTION FIVE (20MARKS)

a) Define web security. (2mks)

b) Explain **five** simple ways of improving your website security. (10mks)

c) Explain **four** steps of maintaining your websites. (8mks)