Mount Kenya University

CONTINUOUS ASSESSMENT TEST 1

UNIT NAME **FUNDAMENTALS OF INTERNET**

UNIT CODE: **BIT 2102**

NAME:WILFRED GITHUKA

STUDENTS ID: BIT/2019/44664

a) Write an HTML code that will display the following information   (10 marks)
    <u>List of Employees who were employed in 2018/2019 Calendar year</u>

Emp Number	Gender	Nationality	Renumeration (Ksh)
EMP-001-01	M	MALAWIAN	200,000
EMP 001-02	F	ETHIOPIAN	180,000
EMP-001-03	M	GERMAN	200,000
EMP-001-124	M	KENYAN	250,000

End of LISTING
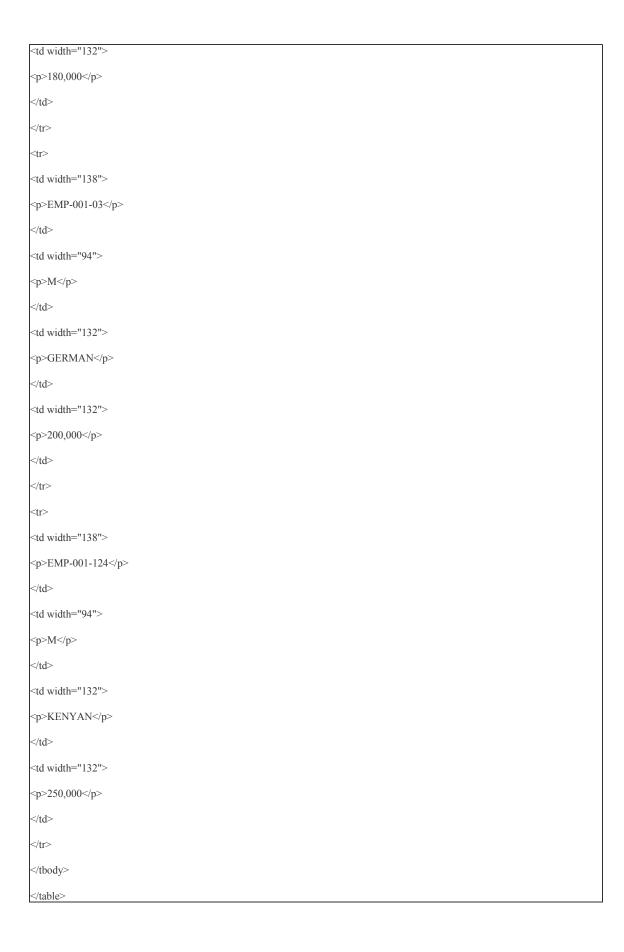
```
<p><strong><u>List of Employees who were employed in 2018/2019 Calendar year</u></strong></p>

<table>

<tbody>

<tr>

<td width="138">

<p><strong><u><strong>Emp Number</strong></u></strong></p>

</td>
```

```html
<td width="94">

<p><strong><u><strong>Gender</strong></u></strong></p>

</td>

<td width="132">

<p><strong><u><strong>Nationality</strong></u></strong></p>

</td>

<td width="132">

<p><strong><u><strong>Renumeration (Ksh)</strong></u></strong></p>

</td>

</tr>

<tr>

<td width="138">

<p>EMP-001-01</p>

</td>

<td width="94">

<p>M</p>

</td>

<td width="132">

<p>MALAWIAN</p>

</td>

<td width="132">

<p>200,000</p>

 </td>

</tr>

<tr>

<td width="138">

<p>EMP 001-02</p>

</td>

<td width="94">

<p>F</p>

</td>

<td width="132">

<p>ETHIOPIAN</p>

</td>
```

```
<td width="132">
<p>180,000</p>
</td>
</tr>
<tr>
<td width="138">
<p>EMP-001-03</p>
</td>
<td width="94">
<p>M</p>
</td>
<td width="132">
<p>GERMAN</p>
</td>
<td width="132">
<p>200,000</p>
</td>
</tr>
<tr>
<td width="138">
<p>EMP-001-124</p>
</td>
<td width="94">
<p>M</p>
</td>
<td width="132">
<p>KENYAN</p>
</td>
<td width="132">
<p>250,000</p>
</td>
</tr>
</tbody>
</table>
```

<p>End of LISTING</p>

a) Write a HTML code that creates a form to accept client name, clients address, clients' gender, and comments then submits this form to a script called simpleform.html through the post method.   (6 marks)

```
<!DOCTYPE html>
<html>
<body>

<form action="/send_page.php" method="post" target="simple_form.html">
 Name: <input type="text" name="name"><br>
 Address: <input type="text" name="add"><br>
 Gender: <input type="text" name="gender"><br>
 Comments: <input type="text" name="comments"><br>

 <input type="submit" value="Submit">
</form>

<p>Please click on the submit button, </p>

</body>
</html>
```

b) Create a hyperlink "MKU" that links the user to http://www.mku.ac.ke in new browser window

                                                         (2 marks)

```
<!DOCTYPE html>
<title>MKU</title>

<a href=" http://www.mku.ac.ke" target="_blank">HTML Tags</a>
```

c) What do you understand by a Hyper Text Mark-up language   (HTML) and give the structure of a HTML script   (2 marks)

HTML is the standard language that is used to design webpages. Hypertext refers to the way in which Web pages (HTML documents) are linked together. Thus, the link available on a webpage is called Hypertext. The "mark-up" a text document with tags that tell a Web browser how to structure it to display.

```
<html>
 <head>
   Document header related tags
 </head>

 <body>
   Document body related tags
 </body>

</html>
```

d) Describe the structure of a uniform Resource Locator (URL), clearly explaining each of its components   (2 marks)

a) Protocol - The protocol defines how your browser handles the data and what type of connection is established. Common protocols include Hypertext Transfer Protocol (HTTP) for accessing web pages or Hypertext Transfer Protocol Secure (HTTPS)
b) Domain Name - The domain name part of the web address is the unique identifier for the website on the internet.
c) Domain Extension - The domain extension follows the domain name and is used to denote what type of website it is.
d) Path & File Name - The path is the section of the web address after the domain extension that indicates to your browser which folder or file to open. Unlike the domain name, the path is case sensitive so "/about.html" is not the same as "/About.html."

e) Explain briefly three factors you would consider when designing a good commercial webpage for a university admission.   (3 marks)

1. Choosing a Domain that matches the school name

In addition to being memorable, a domain name needs to accurately reflect your brand's voice and be nearly impossible to misspell. Finding the right name for the school is crucial, because incorporating a combination of SEO, simple spelling, and brand identity into the domain name leads to a higher chance of being located in search engine results.

2. Clean Design

One of the most important things to remember during the process of website development is to create a clean, appealing design. A quality design is attractive and easy to read with intuitive navigation which the students can appreciate
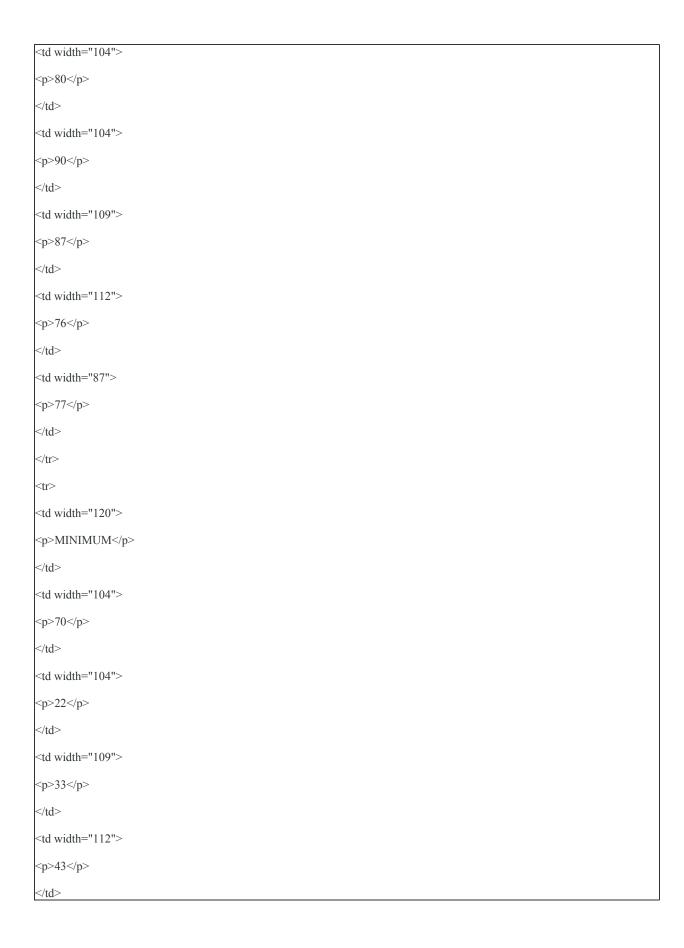
3. Functionality

When thinking about functionality, there are a few matters to consider. Namely, is the website functional in the literal sense? Are there loading issues or broken links? Are the site's security features adequate for your business's needs? In addition to these operational issues, it's crucial to view your website's features from the user's perspective. Are the contact forms, surveys, and customer feedback sections of your site working properly? One or all of these functional issues can prompt a user to leave your site.

f) Write the HTML code for the following table: (5 marks)

TEMPERATURE					
CITIES	Capetown	Texas	Tokyo	Accra	Nairobi
MAXIMUM	80	90	87	76	77
MINIMUM	70	22	33	43	25

```html
<p> </p>

<table>

<tbody>

<tr>

<td colspan="6" width="638">

<p><strong>TEMPERATURE</strong></p>

</td>

</tr>

<tr>

<td width="120">

<p>CITIES</p>

</td>

<td width="104">

<p> Capetown</p>

</td>

<td width="104">

<p>Texas</p>

</td>

<td width="109">

<p>Tokyo</p>

</td>

<td width="112">

<p>Accra</p>

</td>

<td width="87">

<p>Nairobi</p>

</td>

</tr>

<tr>

<td width="120">

<p>MAXIMUM</p>

</td>
```

```html
<td width="104">

<p>80</p>

</td>

<td width="104">

<p>90</p>

</td>

<td width="109">

<p>87</p>

</td>

<td width="112">

<p>76</p>

</td>

<td width="87">

<p>77</p>

</td>

</tr>

<tr>

<td width="120">

<p>MINIMUM</p>

</td>

<td width="104">

<p>70</p>

</td>

<td width="104">

<p>22</p>

</td>

<td width="109">

<p>33</p>

</td>

<td width="112">

<p>43</p>

</td>
```

```
<td width="87">

<p>25</p>

</td>

</tr>

</tbody>

</table>
```