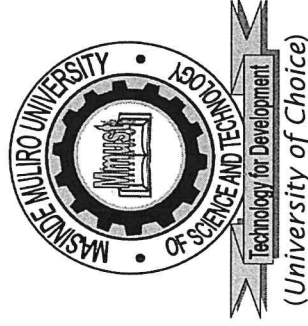


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**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

(MMUST)

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR
FIRST YEAR FIRST SEMESTER EXAMINATIONS**

FOR THE DIPLOMA

IN

INFORMATION TECHNOLOGY

COURSE CODE: DIT 053

COURSE TITLE: INTERNET APPLICATIONS

DATE: 19/04/2022 TIME: 3:00p.m-4:30p.m

INSTRUCTIONS TO CANDIDATES

Answer Questions **ONE** and **ANY OTHER TWO**.

TIME: 1 Hour 30 Minutes

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 4 Pages. Please Turn Over.

QUESTION ONE [24 MARKS]-COMPULSORY

- a) Define the following terminologies. [6 marks]
- i. Internet Service Providers
 - ii. Internet
 - iii. DNS
 - iv. Protocol
- b) Who owns the internet and why? [2 marks]
- c) Describe any **FOUR** components required to ensure internet connection. [4 marks]
- d) TCP/IP and OSI are the most common internet reference models. Give **TWO** similarities and **TWO** differences between the OSI and TCP/IP [4 marks]
- e) State and explain any **THREE** protocols used in internet technology. [6 marks]
- f) State **TWO** programming languages used to develop websites. [2 marks]

QUESTION TWO [18 MARKS]

- a) Outline **TWO** functions of DNS in regard to internet technologies [4 marks]
- b) Explain the role of Access Providers in building up the internet. [4 marks]
- c) Discuss the importance of the internet in business and education sectors. [10 marks]

QUESTION THREE [18 MARKS]

- a) Distinguish between HTTP and HTTPS. Why are these two significant in internetworking [4 marks]
- b) Explain the following technologies as used by access providers [6 marks]
- i) SaaS
 - ii) PaaS
 - iii) IaaS
- c) Write HTML code to give the following output: [8 marks]

Types of fruits

- **Apple**
- **Mango**
- **Pineapple**

QUESTION FOUR [18 MARKS]

- a) Define HTML and why is it important in internetworking [2 marks]
- b) What is the significance of using the following alongside HTML in web programming [6 marks]
- i) CSS
 - ii) PHP
 - iii) JavaScript
- c) Write an HTML code that will display the following text. [5 marks]
- “Hello World!”

d) What will be the output of the following HTML code

[5 marks]

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

<P>Basic HTML Table<p>

<table border="1" >
<tr>
<th colspan= "3">Class Members</th>
<tr>
<th>Firstname</th>
<th>Lastname</th>
<th>Age</th>
</tr>
<tr>
<td>Jill</td>
<td>Suleimani</td>
<td>20</td>
</tr>
<tr>
<td>Eve</td>
<td>Kimani</td>
<td>19</td>
</tr>
<tr>
<td>John</td>
<td>Wafula</td>
<td>22</td>
</tr>
</table>

</body>
</html>
```

QUESTION FIVE [18 MARKS]

- a) Discuss the current trends and emerging issues in internet technologies [10 marks]
- b) What would be the impact on people and businesses if the internet was suddenly switched off? Explain your answer using examples. [8 marks]