



*(University of Choice)*  
**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE CERTIFICATE  
OF  
INFORMATION TECHNOLOGY**

**COURSE CODE: ITC 013**

**COURSE TITLE: INTERNET APPLICATIONS**

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

**INSTRUCTIONS TO CANDIDATES**

Question ONE (1) is compulsory  
Answer ANY other TWO (2) questions

**TIME: 1 Hour 30 Minutes**

**MMUST observes ZERO tolerance to examination cheating**

This paper consists of 4 printed pages. Please Turn Over **▲**

This paper consists of FIVE questions. Answer **Question ONE** and **ANY OTHER TWO**.

### QUESTION ONE [24 MARKS]

- a) Define the following terminologies. [6 marks]
- i. Internet
  - ii. WWW
  - iii. Internet Service Providers
  - iv. Protocol
  - v. HTML
  - vi. Domain Name
- b) Who owns the internet? [2 marks]
- c) State and explain any **THREE** importance of internet. [6 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) Give any **Two** services offered by ISPs. [2 marks]
- f) Differentiate between a web browser and a search engine. [2 marks]
- g) Briefly describe any **TWO** Technologies employed by internet service providers in providing internet services [2 marks]

### QUESTION TWO [18 MARKS]

- a) Define DNS and state its functions in regard to internet technologies [4 marks]
- b) Explain the role of Access Providers in building up the internet. [4 marks]
- c) Define URL and state why it is important in internetworking. Differentiate between absolute and relative URL [4 marks]
- d) George is an education student at Masinde Muliro University of Science and Technology. He just bought a new laptop and would like use it to access the student portal of the university. Now that you are an information technology student, George has come to you for advice. Explain what needs to be done for him to get internet connectivity so that he can access the student portal. [6 marks]

### QUESTION THREE [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 to give the output below [5 marks]

### Ordered List

1. Coffee
2. Tea
3. Milk

- d) What will be the output of the following HTML code [5 marks]

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

<p> Student Table <p>
<table border = "1">
<tr>
<th colspan= "3">Class Members</th>
</tr>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Age</th>
</tr>
<tr>
<th>Jane</th>
<th>Akoth</th>
<th>20</th>
</tr>
<tr>
<th>Kevin</th>|
<th>Wekesa</th>
<th>25</th>
</tr>
</table>
</body>
</html>
```

#### QUESTION FOUR [18 MARKS]

- a. What do you understand by the term computer virus? [2 marks]
- b. Name at least 5 computer viruses known to you. [5 marks]
- c. While technology changes at a rapid pace, so do internet connections. The type of internet connection will determine how much time is spent for uploading or downloading. State four ways in which one can connect to the internet [4 marks]
- d. The internet has become the most popular and influential medium in the world. It is the biggest source of information, communication, and advertising. Despite the many advantages it offers, there are also some limitations in using the internet. State and briefly explain four disadvantages of internet. [7 marks]

#### QUESTION FIVE [18 MARKS]

- a) Give at least four uses of the internet [4 marks]
- b) Emails are an important tool in organizations and for personal use. It is purposely used for communications. Describe the process of sending an email indicating the major components of the email. [8 marks]
- c) What would be the impact on people and businesses if the internet was suddenly switched off? Explain your answer using examples. [6 marks]