



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

UNIVERSITY EXAMINATIONS

MAIN CAMPUS

2022/2023 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF COMPUTER SCIENCE**

COURSE CODE: BCS 114

COURSE TITLE: INTRODUCTION TO INTERNET TECHNOLOGIES

DATE: 05/12/2022

TIME: 08:00-10:00PM

INSTRUCTIONS TO CANDIDATES

Answer questions ONE and any other TWO questions.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over. ▶

QUESTION ONE (30 MARKS)

- a) How does XML differs from HTML (2 marks)
- b) Explain how a web browser communicate with web servers (3 marks)
- c) List the **TWO** primary responsibilities of the IP. (2 Marks)
- d) What is IP Addressing and define *dotted decimal notation*. (4 Marks)
- e) Differentiate between the network number and the host number. (4 Marks)
- f) Clearly differentiate between static, Dynamic and Active web pages (5 marks)
- g) Explain the evolution of the internet and the technological advancements to current (5 marks)
- h) Explain the software and hardware requirements for getting connected to the internet (5 marks)

QUESTION TWO (20 MARKS)

- a) Discuss the relevance of the ARPNET to the technological advancement of the Internet. (10 Marks)
- b) Give two reasons why instant messaging has gained popularity over E-mail [4 Marks]
- c) List and explain four factors you consider when designing a website for an organization [6 Marks]

QUESTION THREE (20 MARKS)

- a) Briefly discuss the importance of the **HTTP** protocol with relevance to the WWW (10 Marks)
- b) With a clear example, what is HTML tag attributes? [4 marks]
- c) Describe the purpose of the following as used in forms (6 Marks)
 - a. Radio Buttons
 - b. Check Boxes
 - c. Drop Down Boxes

QUESTION FOUR (20 MARKS)

- a) With an example, state three kinds of lists are very common and used regularly [3 marks]
- b) Using HTML tags to produce the following schedule [7 marks]

LIST OF STUDENTS			
REGNO	NAME	EXAMS	CAT

COM/B/01-00151/2017	Brenda Mayo	50	16
COM/B/01-00152/2017	Kezia Sofi	24	18
COM/B/01-00152/2017	John Peto	36	20
COM/B/01-00152/2017	Kimberly Ken	41	24
COM/B/01-00152/2017	Jacob Admas	29	23

c) Write the output of the following source code

[10 marks]

```

<HTML><head> <title> MMUST Courses </title></head>
<body>
<H1> MMUST offers world-class education and innovative research in three major areas:</H1>
<OL type="i">
  <Li> Computing
  <Li>Applied Social Sciences

      <UL>
        <LI>Regular
        <Li>Schoolbased
        <Li>Post graduate diploma in education

      </ul>

  <Li>BBM
  <Li>Pure & Applied Sciences
</ol>

<HR>
<h1>MMUST has the following campuses:</h1>

```



```
<select>
```

```
<option>Kakamega-main campus
```

```
<Option selected> Nairobi campus
```

```
<Option>Kaimosi campus
```

```
<Option> Satellite centres
```

```
</select>
```

```
</body> </html>
```

QUESTION FIVE (20 MARKS)

- a) An unattractive site will do more to hurt a business than to help it. As an expert, discuss five general components involved in making a website successful. (10 Marks)
- b) Write a the Html code to create a webpage of a small business enterprise that is to register new customers to the business (10 Marks)