



*(Knowledge for Development)*

## **KIBABII UNIVERSITY**

### **UNIVERSITY EXAMINATIONS 2021 / 2022 ACADEMIC YEAR**

### **END OF SEMESTER EXAMINATIONS YEAR ONE SEMESTER ONE EXAMINATIONS**

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

**COURSE CODE : CSC 115**

**COURSE TITLE : INTERNET TECHNOLOGIES**

**DATE: 26 / 01 / 2022**

**TIME: 09:00 A.M – 11:00 A.M**

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#### **INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO.**

**QUESTION ONE [COMPULSORY] [30 MARKS]**

- a. Describe the following as used in the internet showing their differences
- i. Web server and web browser [2 Marks]
  - ii. Firewall and antivirus [2 Marks]
  - iii. World Wide Web (WWW) and web page [2 Marks]
  - iv. Distributed system and E-commerce [2 Marks]
  - v. Subnet and Domain Name Service (DNS) [2 Marks]
- b. Write the basic structure of the HTML template? [4 Marks]
- c. Describe two transmission technologies used in a local area network (LAN) [4 Marks]
- d. Explain at least three list elements in HTML. [6 Marks]
- e. What are `<br>` tags in HTML? [2 Marks]
- f. Describe four services and opportunities the Internet provides to a computer science student at Kibabii University. [4 Marks]

**QUESTION TWO [20 MARKS]**

- a. Describe at least five basic tags used in HTML [5 Marks]
- b. i. Write an HTML code to form a table to show the below values in a tabular form with heading as Roll No., Student name and Subject Name:
- Ram, Physics
- Shyam, Math
- Murli, Chemistry

That will output the following:

Roll No.	Student Name	Subject Name
1	Ram	Physics
2	Shyam	Math
3	Murli	Chemistry

[8 Marks]

c) Describe any four protocols used on the internet [4 Marks]

d. i. Describe the term Bluetooth [1 Mark]

ii. Explain any two functions of Bluetooth [2 Marks]

### QUESTION THREE [20 MARKS]

a. Define iframe in HTML and show how it's written [3 Marks]

b. What are forms used for in HTML [2 Marks]

c. Write code that will help you specify the size for any heading using the style attribute in your HTML document. [3 Marks]

d. i. What is a <pre> element? [2 Marks]

ii. Give reasons why it is important in HTML [3 Marks]

iii. What can it be used for writing in HTML? [2 Marks]

e. Write HTML code that will output the following in a gold background [5 Marks]

Kibabii University (Bigger Heading)

Computer Science Department (Red text)

First Years Club (Bold)

Invites new members to register (Italics)

Visit HB<sub>10</sub>

#### QUESTION FOUR [20 MARKS]

- a. Describe any five HTML formatting elements [5 Marks]
- b. i. What is a nested list? [2 Marks]
- ii. Create the following nested list in HTML
- Amani na Upendo Hotel
- Today's Menu
- Tea
- Soda
- Main Food (Ugali, Matumbo, Managu, Mala) [5 Marks]
- c. Discuss four major risks that as a computer science student you are likely to face while using the University Wi-Fi with your laptop. [8 Marks]

#### QUESTION FIVE [20 MARKS]

- a. Explain in details SIX elements that a user will be required to have in order to connect to the Internet. Include three hardware and three software [6 Marks]
- b. i. What is a URL used for? [2 Marks]
- ii. Write down a URL as it appears on the Internet and explain all its elements [5 Marks]
- c. Write code that will set different color of the borders as shown below [5 Marks]

**Hello World**

**Hello World**

- d. What is the difference between HTML and other texts? [2 Marks]