



*(Knowledge for Development)*

## **KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
2020/2021 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: 18/02/2021 TIME: 08:00 A.M – 10:00 A.M**

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### **INSTRUCTIONS TO CANDIDATES**

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

### QUESTION ONE [COMPULSORY][30 MARKS]

- a. Differentiate between the following
- i. Internet and World Wide Web (WWW) [2 Marks]
  - ii. Computer network and Distributed System [2 Marks]
  - iii. Intranet and Extranet [2 Marks]
  - iv. Domain and Domain Name Service [2 Marks]
- b. Describe two transmission technologies used in the internet. [4 Marks]
- c. i. What is HTML and why is it important in the Internet? [2 Marks]
- ii. Write and describe four tags as they are used in HTML [4 Marks]
- d. As a computer science student;
- i. Explain to a form four leaver the opportunities that can be provided by the Internet which can be of help to him/her. [4 Marks]
- ii. Explain to a local business person at Kibabii trading centre different services provided by the Internet that are of help to him/her. [4 Marks]
- e. Detail different features and characteristics that will make your web page look good and appealing to a visitor on your site. [4 Marks]

### QUESTION TWO [20 MARKS]

- a. i. Describe how a Client/Server network model processes information [5 Marks]
- ii. List four examples of Client/Server model that involves requests and responses [2 Marks]
- b. As a computer literate person you have decided to open a business. As part of your assests you have a computer that is connected to the internet. What are the likely threats and risks you are likely to face for being connected to the internet? Describe four in detail. [8 Marks]
- c. Explain the main differences between Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6)? [5 Marks]

### QUESTION THREE [20 MARKS]

- a. i. What is URL? Give its role in the Internet. [3 Marks]
- ii. Write down a URL as it will appear on the Internet and explain all its elements [5 Marks]
- iii. What are HTML elements and how are they represented? [2 Marks]
- b. i. What do you understand by the term web browser? [2 Marks]
- ii. List six examples of commonly used web browsers. [3 Marks]
- iii. Explain the relationship between a web browser and the HTML code. [5 Marks]

**QUESTION FOUR [20 MARKS]**

a. i. What is a Protocol?

[2 Mark]

ii. Describe three protocols used in the Internet stating what they are used for

[6 Marks]

b. Explain in details SIX elements that a user will be required to have in order to connect to the Internet.

[12 Marks]

**QUESTION FIVE [20 MARKS]**

Detail the history of the Internet highlighting the major events