KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS
YEAR ONE SEMESTER ONE EXAMINATIONS

FOR DIPLOMA IN
(INFORMATION TECHNOLOGY)

COURSE CODE : **DIT 053**

COURSE TITLE : **INTERNET TECHNOLOGIES**

DATE: 20 /07/2021   **TIME: 9.00 AM- 11.00 AM**

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE   [COMPULSORY]   [24 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]

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 center different services provided by the Internet that are of help to him/her.   [4 Marks]

QUESTION TWO: [18 MARKS]

a. Describe how a Client/Server network model processes information   [5 Marks]

b. As a computer literate person you have decided to open a business. As part of your assets 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: [18 MARKS]

  a. What is URL? Give its role in the Internet.   [3 Marks]

  b. Write down a URL as it will appear on the Internet and explain all its elements [5 Marks]

  c. What do you understand by the term web browser?   [2 Marks]

  d. List six examples of commonly used web browsers.   [3 Marks]

  e. Explain the relationship between a web browser and the HTML code.   [5 Marks]

QUESTION FOUR [18 MARKS]

  a. 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 [18 MARKS]

Discuss the advancement and history of the Internet highlighting the major events