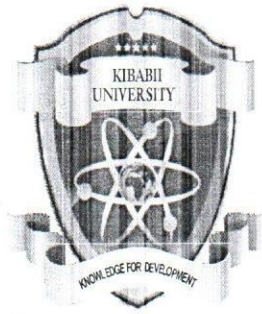


TS



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS

YEAR ONE SEMESTER ONE EXAMINATIONS

**FOR THE DIPLOMA IN INFORMATION
TECHNOLOGY**

COURSE CODE : DIT 050

COURSE TITLE : IT ESSETIALS

DATE: 15/07/2021 TIME: 9.00 AM- 11.00 AM

INSRUCTIONS TO CANDIDATE

ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE (COMPULSORY) [24 MARKS]

- a) Brief describe the following types of computers. [8marks]
- i. Microcomputers
 - ii. Mainframe computer
 - iii. Mini computers
 - iv. Supercomputers
- b) Using suitable examples give five characteristics of RAM and ROM [5marks]
- c) Highlight the components of computer hardware [5marks]
- d) Explain **SIX** functions of Operating System [6marks]

QUESTION TWO [18 MARKS]

- a) What is computer organization structure [2marks]
- b) Using a suitable diagram describe the physical components that make up a modern computer system. With the help of suitable examples, describe briefly the functions of each of the components named. [10marks]
- c) Briefly describe the three components that make up the CUP. [6 marks]

QUESTION THREE [18 MARKS]

- a) State and explain three functions of operating system? [6marks]
- b) Highlight four health hazards associated with the use of computers in an organization. [4marks]
- c) Outline two components that influence the performance of a computer system. [2marks]
- d) Give six symptoms of computer viruses [6marks]

QUESTION FOUR [18 MARKS]

- a) What is a topology [2marks]
- b) State the **FOUR** factors to consider when choosing a network topology [4marks]

Using well illustrated diagrams, describe **THREE** different types of network topology citing their advantages and disadvantages. [12marks]

QUESTION FIVE [18 MARKS]

- a) Briefly describe the following network concept [4marks]
- i. LAN and WAN
 - ii. Intranet and Extranet
- b) State any **THREE** factors you should consider when selecting a site to install computers and explain briefly why they are important. [6marks]
- c) State and explain any five characteristics of a supplier you should avoid [8marks]