



(Knowledge for Development)

KIBABII UNIVERSITY
(KIBU)

UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS
FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DIPLOMA IN
(INFORMATION TECHNOLOGY)

COURSE CODE: DIT 050

COURSE TITLE: IT ESSENTIALS

DATE: 14/12/2022

TIME: 9.00 A.M – 11.00 A.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSARY) [24 MARKS]

- a. Briefly describe the following terms [4 marks]
 - i. Virus
 - ii. Operating system
- b. Briefly discuss four main components a computer [8 marks]
- c. Differentiate between RAM and ROM stating the characteristics for each [6 Marks]
- d. Explain six functions of Operating System [6 marks]

QUESTION TWO [18 MARKS]

- a. Discuss three operating systems that you know [3 marks]
- b. Explain three resources that are managed by OS [3 marks]
- c. Differentiate between system software and operating system [4 marks]
- d. Discuss Four considerations that you will consider when you want to install a software in your computer [4 marks]
- e. Discuss various ways that you can use to improve data security in your computer [4 marks]

QUESTION THREE [18 MARKS]

- a. Define computer system. [2 marks]
- b. Differentiate between computer hardware and computer software giving functions for each. [4 marks]
- c. Give four operations of a CPU that makes it essential in a computer [4 marks]
- d. What do you understand by computer booting, and explain different types of booting [8 marks]

QUESTION FOUR [18 MARKS]

- a. Describe the following types of computers. [8 marks]
Microcomputers, mainframe computers, mini computers, supercomputers
- b. Discuss two components that can influence the performance of a computer [4 marks]
- c. Discuss six symptoms of a computer virus. [6 marks]

QUESTION FIVE [18 MARKS]

- a. What is a computer network? [2 marks]
- b. Differentiate between LAN and WLAN. [2 marks]
- c. Explain the difference between primary storage and secondary storage, give examples for each. [4 marks]
- d. State and explain five advantages of using computers. [5 marks]
- e. Discuss health effects associated with the use of computers. [5 marks]