



(Knowledge for Development)

KIBABII UNIVERSITY
(KIBU)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAMINATION

FIRST YEAR FIRST SEMESTER EXAMINATION

FOR THE DIPLOMA IN

(INFORMATION TECHNOLOGY)

COURSE CODE: DIT 050

COURSE TITLE: IT ESSENTIALS

DATE: 21/07/2022 TIME: 8.00 A.M. – 10.00 A.M. 2HRS

INSTRUCTIONS TO CANDIDATES:

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

Paper Consists of 3 Printed Pages. Please Turn Over ➔

QUESTION ONE (COMPULSORY) [24 MARKS]

- (a) Briefly describe the following types of microcomputers **[8marks]**
- i. Desktop computer
 - ii. Notebooks and PDAS
 - iii. Laptop computers
 - iv. Network Server
- (b) Considering the development of information technology in the 1990s, outline any two emerging trends that suggest the future of computing **[4marks]**
- (c) Explain the main units of the central processing unit (CPU) giving their functions **[5marks]**
- (d) Describe five secondary computer storage devices **[5marks]**
- (e) Explain the two types of computer software **[2marks]**

QUESTION TWO [18MARKS]

- a) Define the following terms: **[8marks]**
- i. Virtual Memory
 - ii. Multiprogramming
 - iii. Multiprocessing
 - iv. Instruction cycle
- b) Briefly describe two types of magnetic storage devices. **[4marks]**
- c) Briefly describe the three components that make up the CPU. **[6marks]**

QUESTION THREE [18MARKS]

- (a) Describe any five fields in which computer knowledge is applied **[5marks]**
- (b) State and explain **FIVE** advantages of using computers **[5marks]**
- (c) Describe briefly **two** different types of network topologies citing at least one advantage and one disadvantages **[8marks]**

QUESTION FOUR [18 MARKS]

- (a) An operating system executes many functions to operate efficiency. Explain four of its essential functions **[8marks]**
- (b) Using suitable examples, distinguish the following computer hardware: **[4marks]**
- i. Laser printer and inkjet printer
 - ii. RAM and ROM
- (c) There are various ergonomics and health effects associated with the use of laptops. Cite any four. **[4marks]**
- (d) what is the difference between hardware and software **[2marks]**

QUESTION FIVE [18MARKS]

- (a) Describe the preparations made before setting up a new computer system **[5marks]**
- (b) When acquiring an office computer system, state 4 key factors that will be considered when selecting between the various dealers who have submitted tenders **[5marks]**
- (c) What is a network operating system **[2marks]**
- (d) During supplier evaluation, which attributes should be given preference in the event suppliers tie. **[6marks]**