



(Knowledge for Development)

KIBABII UNIVERSITY (KIBU)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

END OF SEMESTER EXAMINATION

2021/2022 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATION

FOR THE DIPLOMA IN

(INFORMATION TECHNOLOGY)

COURSE CODE: DIT 050

COURSE TITLE: IT ESSETIALS

DATE: 20/05/2022 TIME: 9.00 A.M. - 11.00 A.M.

2HRS

INSTRUCTIONS TO CANDIDATES:

ANSWER QUESTION ONE AND ANY OTHER TWO.

Paper Consists of 3 Printed Pages Please Turn Over Page 1 of 3

QUESTION ONE (COMPULSORY) [24 MARKS]

a) Write brief notes on the following types of computers. [10marks] i. Microcomputers ii. Mainframe computer iii. Laptop iv. Notebooks Supercomputers V. b) Using suitable examples differentiate between RAM and ROM [4marks] i. RAM ii. ROM iii. Bit iv. Byte c) State any six differences between the early computer systems of 1930-1970and the modern computer systems in use today. [6marks] d) Explain four ways in which computers are used in education [4marks] **QUESTION TWO [18 MARKS]** a) Using suitable diagram describe the physical components that make up a modern computer system. [10marks] b) With the help of suitable examples, describe briefly the function of each of the components named. [8marks] **QUESTION THREE [18 MARKS]** a) Define the following term secondary storage device? [2marks] b) Briefly describe two types of magnetic storage device [4marks] c) Name the different types of network topologies and brief its advantages [5marks] d) Explain two types of computer software [4marks] e) Outline two components that influence the performance of a computer system. [3marks] QUESTION FOUR [18 MARKS] a) Define the term "data communication" and state its importance [4marks] b) Describe the three different types of cables that are used in date communication. [6marks] c) Distinguish between the following technologies [8marks] i. peer-to-peer networking Cloud computing ii. **QUESTION FIVE [18 MARKS]** a) Briefly describe the following network concept [4marks] i. Local Area Network ii. Wide area network b) State any THREE factors you should consider when selecting a site to install

[6marks]

computers and explain briefly why they are important.

c) State and explain any five characteristics of a supplier you should avoid [8marks]