(*University of Choice*)

MASINDE MULIRO UNIVERSITY OF

SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR SEMESTER 1

FOR THE DIPLOMA

IN

INFORMATION TECHNOLOGY

COURSE CODE: DIT 050

COURSE TITLE: IT ESSENTIALS

DATE: 13/04/2023   **TIME: 02:00-03:30PM**

INSTRUCTIONS TO CANDIDATES

Answer **Questions ONE** and **ANY OTHER TWO**.

TIME: 1 Hour 30MINS

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over. ▶

QUESTION ONE   [24MKS]

a)   Define the following terms as used in Information Technology

        i.   Computer   [2 mark]
        ii.   Input   [2 marks]
        iii.   Data processing.   [2 marks]
        iv.   Information.   [2 marks]

b) What is an electronic device?   [1 mark]

c)   Give two examples of peripheral devices.   [1 marks]

d) Explain four main characteristics of 1st generation computers   [2 marks]

e) Explain two reasons why laptop computers are most used today   [2 marks]

f)   Identify four negative effectives associated with the introductory of computers in a society today   [4 marks]

g) State any three components of the Central processing unit   .   [6 marks]

QUESTION TWO   [18 MKS]

a) Explain the three functional units of the central operating unit   [6 Marks]
b) With suitable examples explain three Types of INPUT devices in a computer [6 Marks]
c) List three possible factors that you would consider when buying a computer system [3mks]
d) List three examples of operating systems   [3 mks]

QUESTION THREE   [18 MKS]

a. Define the term Computer crime.   [2 marks]

b. Differentiate between Data Security and Data Integrity.   [2 marks]

c. with examples state two types of data that should be protected in a computer.   [3 marks]

d. State five possible ways of preventing data loss from a computer.   [5 marks]

e. Computer systems need maximum security to prevent an unauthorized access. State six precautions that you would expect an organization to take to prevent illegal access to its computer-based systems.   [6 marks]

QUESTION FOUR [18 MKS]

a) Define the term Operating System   [2mks]
b) State and explain three functions of the Operating System   [6mks]
c) Describe three types of Operating System   [6 mks]
d) List the four examples of operating system   [4mks]

QUESTION FIVE   [18 MKS]

a) State three symptoms of a computer virus   [3 mks]
b) What is a computer network   [2 mks]
c) State three Ways to prevent computer viruses   [3 mks]
d) Explain how computers are used in the following areas.   [10 marks]

    i).   Supermarket.
    ii).   Hospitals.
    iii).   Banks.
    iv).   Hotels.
    v).   Homes.