



(University of Choice)

## MASINDE MULIRO UNIVERSITY OF

## SCIENCE AND TECHNOLOGY

(MMUST)

**MAIN CAMPUS** 

#### UNIVERSITY EXAMINATIONS

**MAIN EXAM** 

## 2023/2024 ACADEMIC YEAR

## FIRST YEAR FIRST TRIMESTER EXAMINATION

# FOR THE DIPLOMA IN SECURITY INTELLIGENCE STUDIES/ DIPLOMA IN DISASTER MANAGEMENT

COURSE CODE: SEC/CU/SM/BC/03/6

COURSE TITLE: DIGITAL LITERACY

DATE:05/12/2023 TIME: 2-4pm

## **INSTRUCTIONS TO CANDIDATES:**

Answer QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



## **QUESTION ONE [24 MARKS] (Compulsory)**

a)	Draw a well – labeled diagram showing the functional units of computer hardware.	
		(4 Marks)
b)	Describe THREE functions performed by the CPU.	(3 Marks)

b) Describe THREE functions performed by the CPU.c) Can a Computer System work without an Operating System?

Discuss (8 Marks)

d) Outline any THREE main features that make word processors popular programs. (3 Marks)

e) Briefly describe FOUR factors contributing to Internet access and growth in Kenya. (4 Marks)

f) Outline TWO ways of preventing piracy with regard to data and information.

(2 Marks)

# QUESTION TWO [18 MARKS]

a) 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)

b) Write in full hence, explain the term ICT

(3 Marks)

c) Explain the following major types of computer crimes in reference to Data Security and Control:

(9 Marks)

- i) Trespass.
- ii) Hacking.
- iii) Tapping.
- iv) Cracking.
- v) Piracy.
- vi) Fraud.
- vii) Sabotage.
- viii) Alteration of data.
- ix) Theft of computer time / Theft of service.

# QUESTION THREE [18 MARKS]

a) Explain **THREE** Differences and **THREE** Similarities between
Internet and Intranet as used in Computer Network Technology (6 Marks)

b) Define computer software? Describe **FIVE** various types of computer software.

(12 Marks)

# **QUESTION FOUR [18 MARKS]**

a) One way of looking at a computer system is by describing the external behavior of each component and describing the interconnection structure and the controls required to manage the use of the interconnection structure. Discuss the view with respect to its structure and function.

(12 Marks)

b) Why is windows called GUI based operating system?

(2 Marks)

c) What are the various components of a database?

(4 Marks)

# QUESTION FIVE [18 MARKS]

a) What is computer security? Mention various threats to computer security

(10 Marks)

b) Using a Diagram, describe any FOUR network topologies.

(8 Marks)