



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021 / 2022 ACADEMIC YEAR

**FIRST SEMESTER EXAMINATIONS
FOR THE CERTIFICATE**

IN

INFORMATION TECHNOLOGY

COURSE CODE: ITC 010

COURSE TITLE: INTRODUCTION TO ICT

DATE: 29/04/2022 TIME: 12:00 - 2:00PM

INSTRUCTIONS TO CANDIDATES

Attempt Question ONE (compulsory) and any other TWO questions

TIME: 1 HOUR 30 MINUTES

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE (24 MARKS)-COMPULSORY

- (a) Differentiate between computer hardware and computer software giving an example of each (3mks)
- (b) List the main characteristics of computers (3mks)
- (c) outline any TWO components that contribute to the performance of a computer system and Briefly state how they affect performance. (4mks)
- (d) Describe the three types of computer networks. (6mks)
- (e) Define the term Applications Software? Give examples of Applications Software (2mks)
- (f) State five key factors you should consider when acquiring new computers? (5mks)

QUESTION TWO (18 MARKS)

The modern computer system has evolved over a long time to its present state.

- a. Briefly outline features of the following types of computers (3mks)
- Main-Frame Computers
 - Micro-computers
 - Super Computers
- b. Explain the advantages of using laptops over desktop computers. (6mks)
- c. Outline **four** advantages of using materials stored on a CD-ROM over the Internet. (3mks)
- d. Using a suitable diagram describe the physical components that make up a modern computer system. (5mks)

QUESTION THREE (18 MARKS)

- a. List 4 components that must be present to create a basic network (4mks)
- b. Describe briefly **two** different types of network topologies citing at least one advantage and one disadvantage (8mks)
- c. Distinguish between the following network concepts
- Client computers and Server computers (2mks)
 - LAN and WAN (2mks)
- d. Briefly describe two benefits of Intranet. (2mks)

QUESTION FOUR (18 MARKS)

- a. Define the term computer software and briefly explain its purpose in a computer system (4mks)
- b. State an example of operating system and briefly explain its functions in a computer system (4mks)
- c. Considering the development of information technology currently, explain any three emerging trends that suggest the future of operating systems. (6mks)
- d. With example differentiate between ROM and RAM (4mks)

QUESTION FIVE (18 MARKS)

- a. Define computer security? (2mks)
- b. i. Define the term compppvirus and give an example. (2mks)
- ii. Describe at least **four** preventive measures that you need to take against malwares. (4mks)

- c. Discuss security measures that an ICT officer can take to prevent unauthorised access of computers and data by hackers. (10mks)