



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS (MAIN PAPER)
2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DIPLOMA
IN
MEDICAL BIOTECHNOLOGY & MEDICAL LABORATORY
SCIENCES

COURSE CODE: DMB/DML 117.

COURSE TITLE: INTRODUCTION TO COMPUTERS AND
COMPUTER APPLICATIONS

DATE: 11TH DECEMBER 2023

TIME: 8.00-10.00AM

INSTRUCTIONS TO CANDIDATES

This paper is divided into three sections, **A**, **B** and **C**, carrying respectively: Multiple Choice Questions (**MCQs**), Short Answer Questions (**SAQs**) and Long Answer Questions (**LAQs**).

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over.

SECTION A: Multiple Choice Questions (20 Marks)

1. What does CPU stand for in computing?
 - A. Computer Processing Unit
 - B. Central Processing Unit
 - C. Control Processing Unit
 - D. Common Programming Unit
2. Which one of the following is a primary function of an operating system?
 - A. Running computer applications
 - B. Creating spreadsheets
 - C. Browsing the internet
 - D. Sending emails
3. What type of software allows users to create documents containing text and graphics?
 - A. Spreadsheet software
 - B. Presentation software
 - C. Database software
 - D. Word processing software
4. Which computer component is responsible for storing data in the long term?
 - A. RAM (Random Access Memory)
 - B. CPU (Central Processing Unit)
 - C. Hard Drive
 - D. Optical Drive
5. What is the function of a spreadsheet software application?
 - A. Creating and managing databases
 - B. Storing and organizing files
 - C. Performing calculations and data analysis
 - D. Designing graphics and images
6. What does HTML stand for in the context of web development?
 - A. Hyper Text Markup Language
 - B. High Tech Machine Learning
 - C. Human Task Management Logic
 - D. Hyperlinking Text Management Language
7. Which computer component provides a temporary workspace for the computer to process data and run programs?
 - A. Hard Drive
 - B. ROM (Read-Only Memory)
 - C. CPU (Central Processing Unit)
 - D. RAM (Random Access Memory)
8. What is the purpose of an internet browser?
 - A. To compose emails
 - B. To create spreadsheets
 - C. To browse websites on the World Wide Web
 - D. To manage computer hardware
9. Which of the following is an example of an input device?
 - A. Monitor
 - B. Printer
 - C. Keyboard

- D. Speakers
10. Which programming language is commonly used for developing web applications?
- A. Java
 - B. C++
 - C. Python
 - D. HTML/CSS/JavaScript
11. What is the function of an email client application?
- A. Creating and editing images
 - B. Sending and receiving emails
 - C. Designing web pages
 - D. Creating presentations
12. What does LAN stand for in computer networking?
- A. Local Access Network
 - B. Linked Area Network
 - C. Local Area Network
 - D. Longitudinal Array Node
13. Which software application is designed for creating presentations with slides containing text, images, and multimedia?
- A. Word processor
 - B. Spreadsheet software
 - C. Presentation software
 - D. Database management software
14. Which one of the following is a characteristic of cloud computing?
- A. Limited accessibility
 - B. Localized data storage
 - C. On-demand access to computing resources over the internet
 - D. Physical storage devices only
15. What is the purpose of an antivirus software?
- A. Creating spreadsheets
 - B. Protecting the computer from malware and viruses
 - C. Sending emails
 - D. Browsing the internet
16. Which component of a computer system stores the computer's BIOS (Basic Input/Output System)?
- A. Hard Drive
 - B. ROM (Read-Only Memory)
 - C. CPU (Central Processing Unit)
 - D. RAM (Random Access Memory)
17. Which type of software enables communication between the hardware and the user?
- A. Application software
 - B. System software
 - C. Firmware
 - D. Utility software
18. What is the primary function of a database management system (DBMS)?
- A. Creating and editing images

- B. Managing and organizing data
- C. Sending and receiving emails
- D. Designing web pages

19. Which device is used to connect a computer to the internet using a wired connection?

- A. Router
- B. Modem
- C. Ethernet Cable
- D. Wi-Fi Adapter

20. What is the purpose of a firewall in a computer system?

- A. Filtering and blocking unwanted network traffic\
- B. Increasing internet speed
- C. Controlling the screen resolution
- D. Managing printer functions

SECTION B: Short Answer Questions (40 Marks)

1. Using a well labelled diagram describe various parts of a computer system (8 marks)
2. Describe the role and significance of RAM and ROM in a computer system. (8 marks)
3. Describe various classes of computers and their application. (6 marks)
4. Describe four secondary storage devices used by computers. (8 marks)
5. Differentiate between application software and system software. (5 marks)
6. List down five key principles of data management. (5 marks)

SECTION C: Long Answer Questions (60 Marks)

1. Discuss various applications of computer in healthcare (20 marks)
2. Discuss various classes of computer software, their types, functions and examples of each program (20 marks)
3. Discuss various computer generations stating the characteristics and relevant examples of computers in each generation (20 marks)