Candidate's Examination Number .....

SMZ

ZANZIBAR EXAMINATION COUNCIL

FORM THREE ENTRANCE EXAMINATION, 2003

063 INFORMATION AND COMPUTER STUDIES

Time: 2:30 Hours.

INSTRUCTIONS TO CANDIDATES

1. This paper consists of Three (3) sections A, B and C.
2. Answer **ALL** questions from Section A and B and **ONLY ONE** questions from section C
3. Write your examination number on each page.
4. Write all answers on the space provided.
5. Use a blue or black pen in writing. Drawings must be in pencil.
6. Cellular phones and unauthorized materials are not allowed in the examination room.

	THIS PART FOR EXAMINER'S ONLY	
Question number	**MARKS**	**SIGNATURE**
1.		
2.		
3.		
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8.		
9.		
10.		
11.		
12.		
TOTAL		

Candidate's Examination Number .....

SECTION A (15 Marks)

Answer all questions in this section.

1. Choose the correct answer and write its letter in the table below.

   i) Which device temporarily stores instructions and data currently in use by the CPU?

   A: ROM

   B: RAM

   C: Hard disk

   D: Flash drive

   ii) Which of the following is a multimedia input device?

   A: Microphone

   B: Scanner

   C: Digital camera

   D: All of the above

   iii) The type of software that translates high-level programming code into machine code is called:

   A: Compiler

   B: Spreadsheet

   C: Browser

   D: Database

   iv) Which of these is **not** an example of a database management system?

   A: Oracle

   B: MySQL

   C: Photoshop

   D: Microsoft Access

   v) Which device connects multiple computers within a network and manages data traffic?

   A: Hub

   B: Switch

   C: Keyboard

   D: Monitor

vi) A computer that is portable and has an integrated screen and keyboard is called:

A: Desktop

B: Notebook

C: Server

D: Mainframe

vii) Which of the following is **not** a function of a word processor?

A: Spell check

B: Slide creation

C: Formatting text

D: Table insertion

viii) Which device helps visually impaired users read printed text?

A: OCR scanner

B: Screen reader

C: Joystick

D: Touchpad

ix) Identify the software that protects data from unauthorized access.

A: Firewall

B: Word processor

C: Antivirus

D: Spreadsheet

x) A small area network covering a single building is called:

A: LAN

B: WAN

C: MAN

D: VPN

2. Match the items in Column A with the correct description in Column B.

COLUMN A

i. Converts digital data to sound

ii. Detects card information electronically

iii. Transfers signals over long distances without degradation

iv. Provides real-time location of a vehicle

v. Captures moving images

COLUMN B

A. Webcam

B. GPS device

C. Card reader

D. Speaker

E. Repeater

F. Modem

G. Microphone

H. Touch screen

SECTION B (75 Marks)

Answer all questions from this section

3. Explain three ways in which computers have impacted business efficiency.

4. Describe two disadvantages of vacuum tube computers.

5. a) List five standard icons found on macOS desktop.
   b) Compare CLI and GUI in terms of efficiency for experienced users.

6. a) Distinguish between joystick and stylus.
   b) Explain the difference between MICR and OMR.
   c) Name two features of ROM.
   d) List three examples of cache memory.

7. a) Define computer lab.
   b) Outline four safety rules to follow in a computer lab.
   c) List three hazards that may destroy a computer.

8. a) Define:
      i) Software application
      ii) File extension
      iii) Network
   b) Explain four basic mouse operations.

9. a) Describe the steps to save a presentation on an external hard drive.
   b) List five types of productivity software.

10. a) Define network topology.
    b) Illustrate and explain ring topology.
    c) State two differences between MAN and WAN.

SECTION C (10 Marks)

Answer ONLY ONE question from this section

11. a) Define spreadsheet.
    b) Using a dataset of exam scores:
       i) Write a formula to calculate the sum of each student's score.
       ii) Write a formula to find the minimum score.
       iii) Determine the average score per subject.

12. a) Explain the difference between "Print" and "Print Preview."
    b) List essential devices needed to connect an office network to the internet.