Candidate's Examination Number .....

SMZ

ZANZIBAR EXAMINATION COUNCIL

FORM THREE ENTRANCE EXAMINATION, 2000

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)

Attempt ALL questions from this section.

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

   i) Which of the following is a non-volatile memory?

   A: RAM

   B: ROM

   C: Cache

   D: Register

   ii) The main function of the ALU (Arithmetic Logic Unit) is to:

   A: Store data

   B: Perform arithmetic and logical operations

   C: Control data flow

   D: Manage memory

   iii) Which of the following is not an input device?

   A: Keyboard

   B: Mouse

   C: Monitor

   D: Scanner

   iv) The operating system that is open-source and free to use is:

   A: Windows

   B: Linux

   C: MacOS

   D: iOS

   v) A device used to connect multiple computers in a network is called a:

   A: Router

   B: Switch

   C: Hub

   D: Bridge

vi) The main advantage of using cloud storage is:

A: Unlimited storage capacity

B: Access from anywhere with internet

C: Higher security

D: Faster data retrieval

vii) Which of the following is a function of the operating system?

A: Managing hardware resources

B: Running applications

C: Providing user interface

D: All of the above

viii) The process of converting data into a secret code to prevent unauthorized access is known as:

A: Encryption

B: Compression

C: Decryption

D: Authentication

ix) Which of the following is not a type of software?

A: Application software

B: System software

C: Hardware

D: Utility software

x) The primary purpose of a firewall is to:

A: Speed up internet connection

B: Protect against unauthorized access

C: Store data

D: Manage network traffic

2. Match the devices in Column A with their functions in Column B. Write the letter of the correct response in the table below.

COLUMN A	COLUMN B
i. Printer	A. Converts digital signals to sound
ii. Microphone	B. Displays visual output
iii. Speaker	C. Captures audio input
iv. Monitor	D. Produces hard copy output
v. Headphones	E. Provides audio output

Section B: (75 Marks)

Attempt ALL questions from this section.

3. a) Define the term 'computer network'.
   b) Explain the difference between LAN and WAN.

4. a) List four types of computer memory and briefly describe each.
   b) What is the function of the CPU in a computer system?

5. a) Describe the steps involved in creating a new folder in Windows operating system.
   b) Explain how to change the desktop background in Windows.

6. a) What is a spreadsheet?
   b) List and explain three basic functions of a spreadsheet application.

7. a) Define the term 'internet'.
   b) Explain the difference between the internet and the World Wide Web.

8. a) What is a database?

   b) List and explain three types of database management systems.

9. a) Define the term 'computer virus'.

   b) Describe two methods to protect a computer from viruses.

10. a) What is the purpose of an operating system?

    b) List and explain three types of operating systems.

Section C: (10 Marks)

Attempt **ONLY ONE (1)** question from this section.

11. a) Define the term 'email'.

    b) Explain the steps involved in sending an email.

    c) List and explain three email etiquette practices.

12. a) Define the term 'computer hardware'.

    b) List and describe five essential components of a computer system.