Candidate's Examination Number .....

**SMZ**

**ZANZIBAR EXAMINATION COUNCIL**

**FORM THREE ENTRANCE EXAMINATION, 2005**

**063 INFORMATION AND COMPUTER STUDIES**

**Time: 2:30 Hours.**

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## 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.** | | |
| **4.** | | |
| **5.** | | |
| **6.** | | |
| **7.** | | |
| **8.** | | |
| **9.** | | |
| **10.** | | |
| **11.** | | |
| **12.** | | |
| **TOTAL** | | |

## Section A: (15 Marks)

**Attempt ALL questions from this section.**

1. Choose the letter of the correct answer and write it in the table provided.

i) Which one of the following is an input device?

A. Printer

B. Speaker

C. Webcam

D. Plotter

ii) The part of the computer responsible for executing instructions is the:

A. RAM

B. ALU

C. Hard disk

D. Monitor

iii) The process of arranging data in a specific order (e.g., alphabetically or numerically) is known as:

A. Sorting

B. Filtering

C. Searching

D. Merging

iv) Which of the following refers to the physical components of a computer system?

A. Software

B. Hardware

C. Data

D. Information

v) The main storage area that the CPU accesses directly is:

A. Secondary memory

B. Cache memory

C. Flash drive

D. Primary memory

vi) A software that is designed to help the user perform a specific task is called:

A. System software

B. Operating system

C. Application software

D. Utility software

vii) What is a collection of computers and other devices connected to share data and resources?

A. A server

B. A network

C. A client

D. An internet

viii) The term booting a computer refers to:

A. Shutting down the computer

B. Starting up the computer

C. Installing new software

D. Saving a document

ix) Which of the following is not a common type of computer port?

A. USB port

B. HDMI port

C. Parallel port

D. CPU port

x) The term multitasking in computing refers to:

A. Using multiple monitors

B. Running multiple programs at the same time

C. Connecting to multiple networks

D. Having multiple users on one computer

**Answers**

| i | ii | iii | iv | v | vi | vii | viii | ix | x |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

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

**COLUMN A**

i. Microprocessor

ii. Output device

iii. Firewall

iv. URL

v. Word processor

**COLUMN B**

A. A program used to create text-based documents.

B. A security system that protects a network from unauthorized access.

C. The brain of the computer that performs calculations.

D. A device that displays or presents information from the computer.

E. A network of computers within a single building.

F. An address used to locate a resource on the internet.

G. The main circuit board.

## Section B: (75 Marks)

Attempt ALL questions from this section.

3. a) Distinguish between the hard copy and soft copy of a document.

   b) Name two (2) devices used to produce a hard copy and two (2) devices that produce a soft copy.

   c) What is the main purpose of a keyboard?

4. a) What is an Operating System?

   b) Mention any four (4) functions of an operating system.

   c) Explain the difference between single-user and multi-user operating systems.

5. a) Differentiate between magnetic storage and optical storage.

   b) Give two (2) examples of each type of storage media mentioned in 5 (a).

   c) Why is a flash drive considered a popular storage device?

6. a) Explain what computer maintenance is.

b) State any three (3) reasons why computer maintenance is important.

c) Briefly describe the process of performing a disk cleanup.

7. a) Define the following terms:

   i. Digital divide

   ii. E-waste

b) Briefly explain how computers can be used in the following areas:

   i. Education

   ii. Healthcare

c) Outline any three (3) negative impacts of computers on society.

8. a) What is data integrity?

b) Explain two (2) ways to ensure data integrity.

c) Briefly describe the concept of data redundancy.

9. a) What is a network topology?

b) Draw and label a diagram of a Bus topology.

c) State one (1) advantage and one (1) disadvantage of a bus topology.

10. a) Explain the term internet safety.

    b) Mention any four (4) common threats to internet safety.

    c) Give two (2) tips for protecting yourself from online threats.

## Section C: (10 Marks)

Attempt ONLY ONE (1) question from this section.

11. a) What is MS Word?

    b) Describe the following features of MS Word:

    i. Spell checker

    ii. Thesaurus

    iii. Find and Replace

    c) Briefly explain the purpose of margins and page orientation in a document.

12. a) What is a spreadsheet cell?

    b) Differentiate between a row and a column in a spreadsheet.

    c) Provide the correct spreadsheet formula to:

    i. Find the average of cells A1, A2, and A3.

    ii. Sum the values in cells B5 through B10.

    iii. Find the minimum value in cells C1, C2, C3, and C4.