Candidate's Examination Number .....

SMZ

ZANZIBAR EXAMINATION COUNCIL

FORM THREE ENTRANCE EXAMINATION, 2011

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.		
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) The first electronic digital computer was developed in which generation?

A. First generation

B. Second generation

C. Third generation

D. Fourth generation

ii) Which of the following is a type of permanent memory?

A. RAM

B. ROM

C. Cache

D. Register

iii) The term modem stands for:

A. Modular Demodulator

B. Modulator Demodulator

C. Memory Demodulation

D. Main Demodulator

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

A. System software

B. Operating system

C. Utility software

D. Application software

v) Which of these is a type of wireless transmission media?

A. Coaxial cable

B. Twisted-pair cable

C. Satellite

D. Fiber optic cable

vi) What is the illegal copying and distribution of software called?

A. Hacking

B. Piracy

C. Phishing

D. Spamming

vii) Which one of the following is not a common computer port?

A. USB port

B. HDMI port

C. Ethernet port

D. CPU port

viii) The term online refers to:

A. A user watching a video

B. A user being connected to the internet

C. A user running a program

D. A user typing a document

ix) The process of arranging data in ascending or descending order is called:

A. Filtering

B. Sorting

C. Searching

D. Merging

x) A computer that provides services to other computers in a network is called a:

A. Client

B. Workstation

C. Server

D. Node

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	COLUMN B
i. Scanner	A. An input device that converts sound signals into electrical signals.
ii. Plotter	B. An output device that converts electrical signals back into sound.
iii. Printer	C. An input device that converts a physical document into a digital file.
iv. Speaker	D. An output device used to produce large high-quality prints.

v. Microphone	E. A device that produces a soft copy output.
	F. An output device that produces a hard copy of a document.
	G. The brain of the computer.

Section B: (75 Marks)

Attempt ALL questions from this section.

3. a) State three (3) differences between a desktop and a laptop computer.

   b) Give two (2) advantages of a laptop.

   c) Why is a laptop considered more portable than a desktop?

4. a) Explain the purpose of a computer power supply unit (PSU).

   b) Mention three (3) external ports found on the back of a system unit.

   c) Briefly explain the difference between a bus and a port.

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 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 social media.

   b) Give two (2) examples of social media platforms.

   c) Analyze two (2) advantages and two (2) disadvantages of using social media.

8. a) What is a user account in a computer system?

   b) Explain the difference between a standard user account and an administrator account.

   c) State two (2) reasons why it is important to have multiple user accounts on a shared computer.

9. a) Explain the term internet safety.

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

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

10. a) What is a word processor?

    b) Describe the following features of a word processor:

    i. Spell checker

    ii. Thesaurus

    iii. Find and Replace

    c) Briefly explain the purpose of a Header and Footer.

Section C: (10 Marks)

Attempt ONLY ONE (1) question from this section.

11. A supermarket uses a spreadsheet to track the prices of various items. Use the table below to answer the questions that follow.

	A	B	C	D
1	**Item**	**Price**	**Quantity Sold**	**Total Cost**
2	Bread	2500	120	
3	Milk	1800	150	
4	Eggs	400	250	
5	Sugar	3500	80	
6	Rice	6000	100	

a) Write a formula to calculate the total cost for each item in column D.

b) What formula would you use to find the average price of all items in cell B7?

c) Write a formula to find the minimum price of an item in the list.

d) What formula would you use to find the total quantity of all items sold?

12. a) What is an information system?

b) List the five (5) components of an information system.

c) Briefly explain the importance of a well-designed information system for an organization.

d) What is the main purpose of a CPU fan?