Candidate's Examination Number .....

SMZ

ZANZIBAR EXAMINATION COUNCIL

FORM THREE ENTRANCE EXAMINATION, 2006

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		

Candidate's Examination Number .....

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 considered the brain of the computer?

A. RAM

B. Hard disk

C. CPU

D. Motherboard

ii) A device that translates digital signals from a computer into analog signals for transmission over phone lines is a:

A. Router

B. Switch

C. Hub

D. Modem

iii) The term "open source" software means:

A. It is free to use and distribute

B. It is expensive and copyrighted

C. Its source code is available to the public

D. It can only be used by one person

iv) The process of saving a file that has already been saved with a new name or location is called:

A. Save

B. Save As

C. Print

D. Close

v) Which of the following is not a common type of network?

A. LAN

B. WAN

C. PAN

D. SAN

vi) A software that manages all the hardware and software resources of a computer is a:

A. Application software

B. Utility program

C. Operating system

D. Word processor

vii) What is a collection of related fields in a database called?

A. Table

B. Record

C. File

D. Database

viii) The term multimedia refers to:

A. Using a single application

B. The combination of text, graphics, audio, and video

C. Running a single program

D. Using a single computer

ix) Which of these is a function of the Arithmetic Logic Unit (ALU)?

A. Storing data

B. Performing mathematical and logical operations

C. Controlling the flow of data

D. Displaying output

x) A set of instructions given to a computer to perform a specific task is a:

A. Hardware

B. Software

C. Data

D. Device

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. Desktop,A. The study of workplace design to maximize comfort and efficiency.

ii. Ergonomics,B. A program used to create, store, and manage large amounts of data.

iii. Malware,C. A software used to access the internet.

iv. Browser,D. A program designed to cause harm to a computer.

v. Database,E. A file that produces a hard copy.

,F. The main screen of a computer when you log in.

,G. The main circuit board.

Answer Table:

i	ii	iii	iv	v

Section B: (75 Marks)

Attempt ALL questions from this section.

3. a) Distinguish between analog and digital signals.

   b) Give two (2) examples of devices that use each type of signal.

   c) Why are computers considered digital devices?

4. a) Explain what a computer peripheral is.

   b) Give four (4) examples of computer peripherals.

   c) What is the main difference between an input peripheral and an output peripheral?

5. a) Define computer maintenance.

   b) Mention three (3) reasons why it is important to perform computer maintenance.

   c) What is the purpose of a disk defragmenter?

6. a) What is a network topology?

   b) Draw a simple diagram of a Ring topology.

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

7. a) Explain the term cybercrime.

   b) Give two (2) examples of cybercrime.

   c) Briefly describe the concept of phishing.

8. a) Define the following terms:

   i. E-commerce

   ii. E-learning

   b) State two (2) benefits of e-commerce.

   c) What is the main difference between B2B and B2C e-commerce?

9. a) Explain the difference between Application Software and System Software.

   b) Give two (2) examples of each.

   c) What is a user interface?

10. a) Explain the term data security.

    b) Mention three (3) common threats to data security.

    c) Briefly describe the purpose of an antivirus program.

Section C: (10 Marks)

Attempt ONLY ONE (1) question from this section.

11. A teacher uses a spreadsheet to manage student marks. Use the table below to answer the questions that follow.

	A	B	C	D	E	F	G
1	**Name**	**Math**	**Science**	**English**	**Total**	**Average**	

2	John	85	90	78			
3	Jane	76	88	82			
4	Peter	92	75	95			
5	Mary	68	80	70			
6	Mike	80	85	88			

a) Write a formula to calculate the total marks for each student in column E.

b) What formula would you use in cell G2 to find the average marks for John?

c) Write a formula to find the maximum mark in the Science subject.

d) What formula would you use to find the average mark for the entire class for all subjects?

12. a) What is a word processor?

b) Differentiate between the following terms as used in a word processor:

i. Undo and Redo

ii. Copy and Cut

iii. Font and Font size

c) Briefly explain the purpose of the Status Bar in a word processor window.