Candidate's Examination Number .....

SMZ

ZANZIBAR EXAMINATION COUNCIL

FORM THREE ENTRANCE EXAMINATION, 2015

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) Which one of the following is not a computer virus?

A. Trojan horse

B. Worm

C. Spyware

D. Antivirus

ii) The main component of a computer that performs all calculations is the:

A. RAM

B. ALU

C. Control Unit

D. Hard disk

iii) The term LAN stands for:

A. Local Area Network

B. Large Area Network

C. Long Access Network

D. Logical Area Network

iv) Which of the following is a type of secondary storage?

A. RAM

B. ROM

C. CPU

D. Hard disk

v) The process of starting a computer from a powered-off state is called:

A. Cold booting

B. Warm booting

C. Rebooting

D. Hibernating

vi) A software that is designed to protect a computer from viruses and other malware is:

A. Word processor

B. Antivirus software

C. Spreadsheet program

D. Operating system

vii) What is a collection of related data stored in a file called?

A. A database

B. A record

C. A field

D. A table

viii) The term online banking refers to:

A. Using a credit card

B. Visiting a bank branch

C. Performing financial transactions over the internet

D. Withdrawing cash from an ATM

ix) Which of these is a function of the Control Unit in the CPU?

A. Storing data

B. Performing arithmetic calculations

C. Directing the flow of data

D. Displaying output on the screen

x) A software license agreement that allows a single user to install and use the software is called:

A. Site license

B. Single-user license

C. Open source license

D. Freeware

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 application for storing and managing large amounts of data.
ii. Ergonomics	B. A piece of code that can replicate itself and spread to other computers.
iii. Virus	C. The science of designing and arranging workplace items for comfort and efficiency.
iv. Blog	D. A device that converts a physical document into a digital file.

v. Database	E. A personal website or web page where a person writes their opinions.
	F. The process of starting a computer.
	G. An application that handles numbers and calculations.

Section B: (75 Marks)

Attempt ALL questions from this section.

3. a) Distinguish between analog data and digital data.

   b) Give two (2) examples of devices that work with analog data and two (2) with digital data.

   c) What is a digitizer?

4. a) State three (3) different types of computers based on their size and purpose.

   b) Explain two (2) differences between a desktop computer and a supercomputer.

   c) Mention two (2) typical uses of a supercomputer.

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

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

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

6. 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.

7. a) What is online privacy?

   b) Explain two (2) reasons why it is important to protect your personal information online.

   c) Mention three (3) potential risks of not protecting your online privacy.

8. 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.

9. a) Explain what a computer peripheral is.

   b) State the main function of the following peripherals:

   i. Scanner

   ii. Plotter

   c) Differentiate between an impact printer and a non-impact printer.

10. a) What is data backup?

    b) State two (2) reasons for performing data backup.

    c) List two (2) types of external storage devices used for data backup.

Section C: (10 Marks)

Attempt ONLY ONE (1) question from this section.

11. A company uses a spreadsheet to track the monthly expenses of four different departments. Use the table below to answer the questions that follow.

	A	B	C	D	E
1	**Department**	**January**	**February**	**March**	**Total Expenses**
2	Sales	150000	180000	165000	
3	Marketing	120000	135000	140000	
4	Production	200000	195000	210000	
5	Administration	90000	95000	88000	
6	Total				

a) Write a formula to calculate the total expenses for the Sales department in cell E2.

b) What formula would you use to find the average expenses for all departments in January?

c) What is the formula to find the minimum expense incurred in February?

d) Write a formula to calculate the total expenses for the entire company for the three months.

12. a) Define the term internet.

b) Differentiate between a Hub and a Router.

c) Briefly explain any three (3) benefits of having a LAN in a work organization.

d) Analyze any three (3) factors to be considered when choosing an Internet Service Provider.