Candidate's Examination Number .....

SMZ

ZANZIBAR EXAMINATION COUNCIL

FORM THREE ENTRANCE EXAMINATION, 2017

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 correct answer and write its letter in the table provided.

i) Which one of the following is not a common type of computer memory?

A. RAM

B. ROM

C. CPU

D. Cache

ii) A device that translates digital signals into analog signals and vice versa is a:

A. Router

B. Switch

C. Hub

D. Modem

iii) The term cloud computing refers to:

A. Using a single computer

B. Storing and accessing data over the internet

C. Using a computer with no hard disk

D. A type of network cable

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

A. RAM

B. ROM

C. Cache

D. Register

v) The process of putting a computer back into its initial state is called:

A. Rebooting

B. Hibernating

C. Formatting

D. Installing

vi) 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

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 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.

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
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 F2 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?

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.