Candidate's Examination Number .....

**SMZ**

**ZANZIBAR EXAMINATION COUNCIL**

**FORM THREE ENTRANCE EXAMINATION, 2016**

**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** | | |

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## 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 of the following is an example of an output device?

A. Keyboard

B. Scanner

C. Speaker

D. Mouse

ii) The main circuit board of a computer is known as the:

A. CPU

B. Motherboard

C. Hard disk

D. RAM

iii) The term "volatile" in computer memory means:

A. Data is permanent

B. Data is lost when power is off

C. It is very fast

D. It is slow

iv) The acronym ROM stands for:

A. Read Only Memory

B. Random Only Memory

C. Read Other Memory

D. Random Outer Memory

v) Which one of these is a system utility software?

A. Microsoft Word

B. Disk Defragmenter

C. Google Chrome

D. Adobe Photoshop

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

A. Client

B. Workstation

C. Server

D. Node

vii) Which of the following is a type of network topology?

A. Bus

B. Bridge

C. Router

D. Switch

viii) An example of a portable computer is a:

A. Desktop computer

B. Server

C. Supercomputer

D. Laptop

ix) What is the process of converting data into a secret code to prevent unauthorized access called?

A. Encryption

B. Decryption

C. Compression

D. Formatting

x) A device that translates digital signals from a computer into a format that can be transmitted over telephone lines is a:

A. Router

B. Modem

C. Switch

D. Hub

2. Match the items 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. GUI<br>ii. Piracy<br>iii. Malware<br>iv. LAN<br>v. Hard disk | A. Software designed to disrupt computer operations or gain unauthorized access.<br>B. The illegal copying or distribution of software.<br>C. A network that connects computers within a small geographical area.<br>D. A storage device that stores data on magnetic platters. |

| | |
|---|---|
| | E. A user interface that uses graphical elements like icons and menus.<br><br>F. A network. |

## Section B: (75 Marks)

Attempt ALL questions from this section.

3. Write down two (2) differences between Primary storage and Secondary storage.

4. a) Briefly explain the following:

   i. Word wrap

   ii. Word art

   b) Identify three (3) possible reasons for a computer not being able to save data in a disk.

   c) i) Define the term word processing.

   ii) Specialized software for word processing is known as

   iii) Give two (2) advantages of using a word processing program.

5. a) As a Computer specialist, explain the benefits of having the following devices in a computer room:

   i. Voltage stabilizers

   ii. Surge protector

   b) Define the following terms:

i. Utility programs

ii. Backup

c) Briefly explain the effects of the following on computers:

i. Dust

ii. Liquid

6. a) i) What is a search engine?

ii) Identify any four (4) common search engines.

b) Define the following terms:

i. e-learning

ii. Electronic commerce

c) Analyze any two (2) advantages of using the e-learning method.

7. a) Write a short explanation of computer peripherals.

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

c) The figure below shows six (6) parts of a personal computer. Two (2) parts have already been labeled.

i) Write the names of the remaining parts.

ii) State the importance of parts A, B, C and D.

8. a) Show the difference between Application software and System software.

b) i) Define the term operating system.

ii) Mention any two (2) examples of operating systems.

iii) Write down any four (4) functions of an operating system.

9. a) Early computing devices have been replaced by modern computing devices due to several reasons. Identify any two (2) early computing devices.

   b) The first computer generation covers the period from 1951-1958. Write down the periods covered by:

      i) Second computer generation:

      ii) Third computer generation:

      iii) Fourth computer generation:

   c) Analyze two (2) characteristics of computers in the 5th computer generation.

10. a) Define Data Transmission media.

    b) List four (4) types of transmission media.

    c) i) Outline two (2) advantages of using fiber cable.

       ii) Identify any two (2) disadvantages of fiber cable.

## Section C: (10 Marks)

Answer only ONE (1) question from this section.

11. From the table above.

    a) i. Write a formula to find the average mark for the entire class.

       ii. Write a formula to find the sum of marks for each student.

       iii. Write a formula to find the maximum mark on the computer subject.

    b) Write down two (2) applications of a spreadsheet program.

12. a) Define the term internet.

b) Give the difference between the Hub and 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.