Candidate's Examination Number .....

SMZ

ZANZIBAR EXAMINATION COUNCIL

FORM THREE ENTRANCE EXAMINATION, 2012

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.		
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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 not a type of computer?

A. Desktop computer

B. Laptop computer

C. Mainframe computer

D. Spreadsheet computer

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

A. Rebooting

B. Hibernating

C. Formatting

D. Installing

iii) Which of the following is a component of a computer's Central Processing Unit (CPU)?

A. RAM

B. Motherboard

C. Hard disk

D. Arithmetic Logic Unit (ALU)

iv) The illegal copying and distribution of software is known as:

A. Hacking

B. Piracy

C. Phishing

D. Spamming

v) Which of the following is an example of an open-source operating system?

A. Microsoft Windows

B. macOS

C. Linux

D. Chrome OS

vi) A network that connects computers within a specific, small geographical area is a:

A. WAN

B. MAN

C. LAN

D. Internet

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 URL stands for:

A. Uniform Resource Locator

B. Universal Resource Link

C. Universal Remote Link

D. Uniform Remote Locator

ix) Which of these is a form of malware designed to spy on a user's activity?

A. Worm

B. Trojan horse

C. Spyware

D. Virus

x) A physical cable used to connect a computer to a network is called a:

A. USB cable

B. Ethernet cable

C. Power cable

D. Printer cable

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

i. Mouse

ii. Monitor

iii. Printer

iv. Scanner

v. CPU

COLUMN B

A. The brain of the computer.

B. A device used to produce a soft copy output.

C. An input device used to control the cursor on the screen.

D. A device used to produce a hard copy output.

E. A device that converts an image or text from paper to digital format.

F. The main circuit board.

G. An application that handles numbers.

Section B: (75 Marks)

Attempt **ALL** questions from this section.

3. a) Define computer generations.

   b) State the main technology used in the first, second, and third generations of computers.

   c) Mention one (1) characteristic of computers from the fourth generation.

4. a) What is a web browser?

   b) List three (3) popular web browsers.

   c) Explain the difference between a web browser and a search engine.

5. a) State three (3) advantages of using a laptop computer over a desktop computer.

   b) Give two (2) disadvantages of a laptop computer.

   c) Briefly explain the term portability.

6. a) What is a file extension?

   b) Give two (2) examples of file extensions for each of the following:

      i. Text documents

      ii. Image files

c) Briefly describe the purpose of a folder in a computer system.

7. a) Define the term computer ethics.

   b) State any three (3) ethical issues related to the use of computers.

   c) Give two (2) ways of promoting ethical computer use.

8. a) What is the main difference between an e-learning and a traditional classroom method?

   b) State two (2) advantages of using e-learning.

   c) Mention two (2) disadvantages of e-learning.

9. a) Explain what a computer program is.

   b) Differentiate between application software and system software.

   c) Give one (1) example of each.

10. a) What is a computer virus?

    b) Explain two (2) types of computer viruses.

    c) State three (3) ways to prevent a computer virus.

Section C: (10 Marks)

Attempt **ONLY ONE (1)** question from this section.

11. a) Define the term spreadsheet.

    b) Explain the following terms as used in a spreadsheet:

       i. Cell

       ii. Row

       iii. Column

c) Provide a formula to calculate the total sum of the values in cells A1, A2, A3, and A4.

d) What is the purpose of a formula bar?

12. a) What is networking?

b) Differentiate between peer-to-peer and client-server networks.

c) Give two (2) advantages of a Local Area Network (LAN) in a business.

d) What is the main difference between a Hub and a Switch?