

THE UNITED REPUBLIC OF TANZANIA
PRIME MINISTER'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT



SENGEREMA DISTRICT COUNCIL
FORM TWO TERMINAL JOINT EXAMINATION

037

COMPUTER SCIENCE

Duration: 2:30 Hours

May, 2026

Instructions

1. This paper consists of three section A, B and C
2. Answer **ALL** questions in section A and B and question number 10 from section C
3. All writing should be in **blue** or **black** ink except drawings which must be in pencil
4. Cellular phones and any unauthorized materials are **not allowed** in the examination room
5. Write your **Examination Number** on every page of your softcopy work

FOR EXAMINER'S USE ONLY		
QUESTION NUMBER	SCORE	EXAMINER'S INITIAL
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
TOTAL MARKS		

SECTION A: (15 Marks)

Answer all question

1. Choose the most correct answer among the given alternatives and write its letter on the given box below
- (i) While visiting a modern data centre, an engineer noted that computers no longer use bulky vacuum tubes or transistors but utilize Microprocessors. Which computer generation is characterized by the use of Large-Scale Integration (LSI)?
A. Second Generation B. Third Generation C. Fourth Generation D. Fifth Generation
- (ii) A school library wants to organize its digital files systematically following the principles of Computer Science. Which definition best describes Computer Science as a field of study?
A. The physical assembly of monitor and keyboard components only.
B. The systematic study of algorithmic processes that describe and transform information.
C. The act of browsing social media and playing high-definition games.
D. The process of repairing broken power supply units and motherboards.
- (iii) A student in the computer lab noticed a sign saying "Do not cover the system unit with clothes while it is running." This precaution is a critical part of:
A. Troubleshooting B. Computer Handling and Care
C. Computer Programming D. Web Design
- (iv) Leticia attempted to switch on her computer, but the screen remained black although the power lights were on. The professional process of identifying the cause of this failure is:
A. Computer Maintenance B. Computer Troubleshooting
C. Software Installation D. Programming
- (v) In a discussion about future technologies, a teacher mentioned machines that can learn from experience and perform tasks that normally require human intelligence. This refers to:
A. First Generation B. Microprocessors C. Artificial Intelligence D. Magnetic Drums
- (vi) A secretary wants to transfer a physical signed document into a digital PDF format to send via email. Which hardware device is most suitable for this specific task?
A. Projector B. Scanner C. Plotter D. Joystick
- (vii) To ensure that the school's examination results are not accessed or changed by unauthorized people over the internet, the school must invest heavily in:
A. High-speed printers B. Cybersecurity measures C. Computer Maintenance D. New Monitors
- (viii) When a programmer writes a set of instructions in Python to solve a mathematical problem, the entire set of instructions that directs the hardware is called:
A. Computer Hardware B. System Unit C. Computer Software D. Peripheral device
- (ix) A student is researching online for Form Two notes and uses a global network that connects millions of computers. This massive network is technically known as:
A. Local Area Network B. The Internet C. Intranet D. Personal Area Network
- (x) Which of the following components is responsible for performing all arithmetic and logical operations within a computer system?
A. Random Access Memory B. Hard Disk Drive
C. Central Processing Unit D. Read Only Memory

ANSWERS

i.	ii.	iii.	iv.	v.	vi.	vii.	viii.	ix.	x.

2. Match the Cybersecurity descriptions in LIST A with the correct terms in LIST B.

LIST A	LIST B
(i) A program designed to replicate and damage files.	A. Encryption
(ii) Tricking users into revealing passwords via fake emails.	B. Computer Virus
(iii) Tool that monitors and filters network traffic.	C. Phishing
(iv) Converting data into code to prevent unauthorized access	D. Firewall
(v) Person gaining unauthorized access to a system.	E. Hacker
	F. Spoofing
	G. Cyberbullying

ANSWERS

LIST A	(i)	(ii)	(iii)	(iv)	(v)
LIST B					

SECTION B: (70 Marks)

Answer all questions

3. Briefly define the following terms as used in Computer Science:

- (i) Computer System: _____

- (ii) Programming: _____

- (iii) Problem Solving: _____

- (iv) The Internet: _____

- (v) Cybersecurity: _____

4. (a) Explain why First-Generation computers produced extreme amounts of heat and required specialized cooling systems.

(b) Mention two physical characteristics of 4th Generation computers that make them different from 1st Generation computers:

- (i) _____
- (ii) _____

5. (a) Provide two examples of "Preventive Maintenance" actions performed in a school computer laboratory

- (i) _____
- (ii) _____

(b) Distinguish between computer routine maintenance and computer corrective maintenance

6. (a) In the context of computer programming, why is it easier for a Form Two student to learn Python than Machine Language?

(b) Name the first two stages of the Program Development Life Cycle (PDLIC).

- (i) _____
- (ii) _____

7. (a) Explain how Hardware and Software work together to make a computer functional.

(b) State two ethical uses of the Internet for secondary school students.

- (i) _____
- (ii) _____

8. (a) A computer cannot work without an operating system (OS) as a form two student, briefly explain how windows OS differ from Mac Os (Give example)

(b) Briefly describe four functions of computer operating system

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

9. Your school has introduced the use of electronic mail (email) to improve communication between teachers and students. You are assigned the role of a class monitor. The class teacher asks you to send an email to all students informing them about a change in the timetable for next week.

a) Describe the steps you will follow to compose and send the email.

b) Explain two advantages of using email compared to handwritten letters in this situation.

- (i) _____
- (ii) _____

SECTION C: (15 Marks)

Answer question number 10

10. A student named Anna received a message on WhatsApp saying she had won **1,000,000 TZS**. To claim it, she was asked to send her mobile money PIN to a certain number. Based on your knowledge of Cybersecurity, suggest five (5) basic cybersecurity measures Anna should take to protect her personal information and devices from online threats
