

Student's Assessment Number _____

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
FORM TWO NATIONAL ASSESSMENT PILOT**

037

COMPUTER SCIENCE
(For Both School and Private Students)

Duration: 2:30 Hours

Year: 2026

Instructions

1. This paper consists of sections A, B and C with total of **ten (10)** questions.
2. Answer **all** questions in the spaces provided.
3. Section A carries **fifteen (15)** marks, section B **seventy (70)** marks and section C carries **fifteen (15)** marks.
4. All answers must be written in **blue** or **black** ink.
5. Communication devices and any unauthorised materials are **not** allowed in the assessment room.
6. Write your **Assessment Number** at the top right corner of every page.

FOR ASSESSOR'S USE ONLY		
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
TOTAL		
CHECKER'S INITIALS		



SECTION A (15 Marks)

Answer **all** questions in this section.

1. For each of the items (i) – (x), choose the correct answer from the given alternatives and write its letter in the box provided. **(10 marks)**
- (i) Which computer hardware is a peripheral device?
A CPU B RAM
C Motherboard D Printer
- (ii) Which computer software is designed to perform tasks like typing a letter or calculating a budget?
A System Software B Application Software
C Operating System D Utility Software
- (iii) What is the function of the diamond symbol as used in flowchart?
A To read input or output message
B To include decision statement
C To specify a link to another flowchart
D To indicate a process of the statement
- (iv) Which flowchart symbol is used to represent START or END operation?
A Rectangle B Triangle
C Parallelogram D Oval
- (v) A computer laboratory assistant needs to ensure that a server stays powered on for at least 15 minutes during a sudden blackout. Which device should he/she install?
A Surge Protector Supply
B Voltage Stabilizer Supply
C Uninterruptible Power Supply
D Step-down Transformer Supply
- (vi) What is the primary purpose of disk defragmentation in computer maintenance?
A To delete duplicate files and free up space of a storage device
B To scan and remove viruses from the computer system
C To rearrange scattered data blocks and speed up file access
D To create a backup of the system on an external drive
- (vii) Why do photographers prefer to use digital camera nowadays?
A They instantly produce images
B They are cheap to purchase
C They produce low quality image
D They are not limited by poor light

(viii) How can strong passwords improve security?

- A By making hacking easier in accounts
- B By deleting hacker accounts and virus
- C By slowing systems to avoid hackers
- D By preventing unauthorized access

(ix) Which one is the correct step for processing data in a computer?

- A Processing → Input → Output
- B Input → Output → Processing
- C Output → Processing → Input
- D Input → Processing → Output

(x) Why is it important to encrypt data when using internet?

- A It reduces data space in the computer system
- B It protects data from unauthorized people
- C It speeds up data transmission during processing
- D It reduces the size of the transferred file

2. Match each function of a computer hardware in **List A** with the correct name in **List B** by writing the letter of the correct answer below the corresponding item number in the table provided. **(5 marks)**

List A		List B
(i)	Displays processed information.	A ALU
(ii)	Converts hardcopy into digital form.	B Printer
(iii)	Provides temporary storage for data currently in use.	C Hard Disk
(iv)	Performs arithmetic and logic operations in a computer.	D Monitor
(v)	Permanently stores files.	E UPS
		F ROM
		G Scanner
		H RAM

Answers

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

SECTION B (70 Marks)

Answer **all** questions in this section.

3. (a) Identify two examples for each of the following type of computer devices:
- (i) Input devices **(2 marks)**
 - _____
 - _____
 - (ii) Output devices **(2 marks)**
 - _____
 - _____
 - (iii) Secondary storage devices **(2 marks)**
 - _____
 - _____
 - (iv) Primary storage devices **(2 marks)**
 - _____
 - _____
- (b) Differentiate computer hardware from computer software. **(2 marks)**
- _____
- _____
- _____
- _____
4. (a) Why is an algorithm important in computer programming? Give two reasons. **(4 marks)**
- (i) _____
- _____
- _____
- _____
- (ii) _____
- _____
- _____
- _____

- (b) Construct an algorithm (pseudocode) that compares two numbers entered by a user and display the maximum value. **(6 marks)**

5. (a) What is a web browser? **(2 marks)**

- (b) Identify two examples of a common web browsers. **(2 marks)**

- (i) _____
- (ii) _____

- (c) Explain three purposes of a search engine in daily life. **(6 marks)**

- (i) _____
- _____
- _____
- _____
- (ii) _____
- _____
- _____
- _____

- (iii) _____

6. (a) Give two disadvantages of using flowchart in designing a program. **(4 marks)**

- (i) _____

- (ii) _____

(b) Explain the following control structures used in algorithm. **(6 marks)**

(i) Sequence

(ii) Selection

(iii) Iteration

7. (a) Explain the importance of computer maintenance. **(2 marks)**

- (b) Explain two physical factors that can damage computer hardware. **(4 marks)**

(i) _____

(ii) _____

- (c) Describe two measures you would use to protect computer data. **(4 marks)**

(i) _____

(ii) _____

8. Construct a flowchart diagram that solves a problem of adding two numbers entered by a user and test whether the total is even or not even. **(10 marks)**



9. (a) Differentiate between system software and application software. **(2 marks)**

(b) Describe four functions of operating system software. **(8 marks)**

- (i) _____

- (ii) _____

- (iii) _____

- (iv) _____

SECTION C (15 Marks)

Answer question **ten (10)**.

10. Explain four applications of Computer Science in everyday life. **(15 marks)**

Student's Assessment Number_____

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