



**TANZANIA HEADS OF ISLAMIC SCHOOLS COUNCIL**  
**FORM TWO INTER ISLAMIC MOCK ASSESSMENT**  
**COMPUTER SCIENCE**

**037**

**TIME: 2:30 Hours**

**Thursday, 06<sup>th</sup> August 2026 a.m.**

**Instructions**

1. This paper consists of sections A, B and C with a total of ten (10) questions.
2. Answer **all** questions in the space provided.
3. Section A carries **fifteen (15)** marks, Section B carries **seventy (70)** marks, and Section C carries **fifteen (15)** marks.
4. All writings must be 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 of this paper.

| <b>FOR ASSESSOR'S USE ONLY</b> |              |                            |
|--------------------------------|--------------|----------------------------|
| <b>QUESTION NUMBER</b>         | <b>SCORE</b> | <b>ASSESSOR'S INITIALS</b> |
| 1                              |              |                            |
| 2                              |              |                            |
| 3                              |              |                            |
| 4                              |              |                            |
| 5                              |              |                            |
| 6                              |              |                            |
| 7                              |              |                            |
| 8                              |              |                            |
| 9                              |              |                            |
| 10                             |              |                            |
| <b>TOTAL</b>                   |              |                            |
| <b>CHECKER'S INITIALS</b>      |              |                            |

**SECTION A (15 Marks)**

Answer **all** questions in this section

1. For each of the items (i) – (x), choose the correct answer from among the given alternatives and write its letter in the table provided.
  - (i) A Form One student at Milango Secondary School wants to know what computer science is all about. Which of the following best describes it?
    - A. The study of how to type documents and create spreadsheets
    - B. The study of how computers work, including building and understanding them
    - C. The study of how to repair computer hardware only
    - D. The study of how to play computer games
  - (ii) Juma wants to permanently store his school projects so they are not lost when the computer is turned off. Which type of memory should he use?
    - A. RAM
    - B. CACHE memory
    - C. ROM
    - D. Secondary storage (hard disk)
  - (iii) Which application software is defined as a program used mainly for financial calculation, budgeting and data analysis?
    - A. Multimedia software
    - B. Spreadsheet
    - C. Database system
    - D. Word Processor
  - (iv) Neema receives an email claiming she has won 5,000,000 Tsh and asking her to click a link and enter her bank details. What type of cyber-attack is this?
    - A. Malware
    - B. Ransomware
    - C. Phishing
    - D. Social engineering
  - (v) A large computer takes a very long time to start after being switched on. What is the most likely cause?
    - A. Start-up program
    - B. Black screen
    - C. Hardware failure
    - D. Blue screen
  - (vi) A student wants to find information about Tanzania's history for a class assignment. She opens a web browser and types [www.google.com](http://www.google.com). What does the underlined word stand for?
    - A. Web browser
    - B. Search engine
    - C. Website
    - D. Domain name

- (vii) Which control flow structure is defined as the one in which instructions are executed one after another?
- Sequence structure
  - Loop structure
  - Iteration structure
  - Selection structure
- (viii) A computer lab located near a coastal region experiences repeated hardware failures. The technician notices rust on internal components and unstable system performance, even though the power supply and software installation are normal. What is the most likely cause?
- Accumulation of dust inside system units
  - Overheating due to poor ventilation
  - High humidity in the environment
  - Faulty RAM modules were installed recently
- (ix) A programmer writes a program that asks users to enter their age. If the user enters a negative number, the program still continues and prints the age as a negative number. What could be the possible error encountered by the programmer?
- Syntax error
  - Compilation error
  - Runtime error
  - Logic error
- (x) Which of the following is high speed and located directly or very close to the CPU, and is used to hold data to speed up processing temporarily?
- RAM
  - ROM
  - Register
  - Cache

**ANSWERS:**

| (i) | (ii) | (iii) | (iv) | (v) | (vi) | (vii) | (viii) | (ix) | (x) |
|-----|------|-------|------|-----|------|-------|--------|------|-----|
|     |      |       |      |     |      |       |        |      |     |

2. Match the problem-solving descriptions in **LIST A** with their correct algorithm presentation in **LIST B** by writing the letter of the correct response in the table provided.

| <b>LIST A</b> |                                                                                                            | <b>LIST B</b>      |
|---------------|------------------------------------------------------------------------------------------------------------|--------------------|
| (i)           | A diagram that uses symbols such as ovals, diamonds, and rectangles to show the steps of a solution.       | A. Sequence        |
| (ii)          | A human-readable, informal way of writing algorithms using plain language and programming-like structures. | B. Looping         |
| (iii)         | The computer reads instructions from the program file line by line. Starting from the first line.          | C. Flowchart       |
| (iv)          | Method of representing the systematic and logical procedure for solving a problem.                         | D. Algorithms      |
| (v)           | Method used when there is a need to execute a statement or block of statements several times.              | E. Iterations      |
|               |                                                                                                            | F. Pseudocode      |
|               |                                                                                                            | G. Problem solving |

ANSWERS:

| <b>LIST A</b> | (i) | (ii) | (iii) | (iv) | (v) |
|---------------|-----|------|-------|------|-----|
| <b>LIST B</b> |     |      |       |      |     |

### SECTION B (70 Marks)

Answer **all** questions in this section

3. During the General Election in Tanzania, only citizens aged 18 years and above are allowed to vote. The election committee wants a simple computer program to determine whether a person is eligible to vote. You are required to develop C program using a user-defined function to solve this problem.

Write a C program that performs the following tasks:

- (a) Prompt the user to enter the following value and state the data Age of the voter

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- (b) Create a function named check Eligibility ( ) that requires

- (i) age as a parameter
- (ii) checks whether the voter is eligible or not
- (iii) Display The Correct results as follows:
  - 'Eligible to vote if age is 18 or above
  - Not Eligible to vote if age is below 18

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- (c) Call the function check Eligibility ( ) in the main ( ) function to execute the program.

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4. A student at Kibwabwa Secondary School is learning different ways of representing solutions to real-life problems. The teacher introduces two methods: Flow charts and Pseudocode.

- (a) Describe two differences between the two methods in presenting the solution.

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- (b) A student is given the task of developing a solution to calculate the area of a rectangle using the formula: **Area = Length × Width**.

Create a simple solution to solve this problem by choosing either of the two methods.

Instruction: Clearly show all steps, including input, process and output.

5. A small business owner in your community, Mama Fatma, sells goods using a mobile phone. Recently, she heard about people losing money through phone scams. She asks for your advice on protecting her business.

- (a) List two common cyber-attacks that Mama Fatma faces in her business.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

- (b) Describe three (3) Cybersecurity practices that Mama Fatma should follow to protect her business.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

6. Your manager at Upendo Tech Solutions asks you to explain to new employees how computers have evolved. Many of them do not know the History of Computers.

(a) Identify the stages in which it has been involved.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_
- (v) \_\_\_\_\_

(b) For any two (2) generations, describe one key technology used and one characteristic of computers from that generation.

- (i) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- (ii) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. A school computer laboratory at Ligalagalilo Secondary School has recently introduced a maintenance program to reduce frequent computer breakdowns. Students are required to understand and apply different maintenance approaches.

(a) Identify two types of computer maintenance that the students can use in their computer laboratory.

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(b) Mention four computer maintenance practices, including two hardware and two software practices.

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(c) Explain the meaning of BIOS.

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8. A Form Two student, John, wants to learn programming but does not know which language to start with. He has heard of Low-level and High-level Programming languages.

(a) Name three (3) examples of high-level programming languages.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_

(b) Explain four (4) Advantages of high-level programming languages.

- (i) \_\_\_\_\_  
\_\_\_\_\_
- (ii) \_\_\_\_\_  
\_\_\_\_\_
- (iii) \_\_\_\_\_  
\_\_\_\_\_
- (iv) \_\_\_\_\_  
\_\_\_\_\_

9. Python is widely used because it is simple, powerful, and applied in many areas, such as education, web development, data analysis, and solving real-life problems. Therefore, learners are encouraged to practice Python Programming to improve their skills.

(a) Write a Python program that displays the multiplication of 7 from 1 to 12. Your output should be in the following format:

7 x 1 = 7  
7 x 2 = 14  
7 x 3 = 21  
....  
7 x 12 = 84

- (b) Write a Python Program that displays a right – angled triangle shape using asterisks (\*). The triangle should have 5 rows. Your output should look like:

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*  
**  
***  
****  
*****
```

- (c) A student is learning both C and Python. Explain one key difference between C and Python in terms of program execution.

### SECTION C (15 Marks)

Answer question **ten** (10)

10. You are a cyber-security intern at "Bantu Cyber Solution Ltd". The company has been hired by "Uzuri Bank" to train its employees about online safety. The bank manager has reported that employees sometimes click on suspicious email links; customers have reported fake bank websites asking for passwords; and some employees use weak passwords like "123456" or their names. The bank wants to protect customer data from hackers. Explain to the bank tellers how they can protect themselves and customer information from the threats outlined above.

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Student’s Assessment Number: \_\_\_\_\_

Lined area for student response.

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