

THE UNITED REPUBLIC OF TANZANIA
THE NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

033/2A

BIOLOGY 2A
(ACTUAL PRACTICAL A)
(For Both School and Private Candidates)

Year: 2025

Duration: 2:30 Hours

Instructions

1. This paper consists of **two (2)** questions. Answer **all** questions.
2. Each question carries **twenty five (25)** marks.
3. All writings should be in **blue** or **black** ink, except diagrams which must be in pencil.
4. Communication devises and any unauthorized materials are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).



1. You have been provided with specimens **O** and **M**, the chemical reagents and apparatus.

You are required to identify the food substances present in the specimens.

(a) Prepare the solutions from specimen **O** and **M** for the food test experiments then, outline the procedures used to prepare each solution.

(b) Carry out experiments to identify the food substances present in specimens **O** and **M**. Your experimental report should be tabulated as shown in the following Table:

Identification of Food Substances in Specimens **O** and **M**

Food Tested	Procedure	Observation	Inference

(c) State the function(s) of each food substance identified in 1(b) to the human body.

(d) Apart from the specimen provided, give another one example of natural source from which the food substances identified in 1(b) could be obtained.

2. You have been provided with specimens **E**, **F** and **G** obtained from different habitat. Carefully study them and answer the following questions:

(a) Identify the Phylum/Division and the Kingdom in which each specimen **E**, **F** and **G** belongs.

(b) For each of specimens **E**, **F** and **G** state three observable features which are characteristic of its respective Phylum/Division.

(c) Name the habitat of each of specimens **E**, **F** and **G**.

(d) For each of specimens **E**, **F** and **G** state whether it is a producer, consumer or decomposer in its natural habitat. Give reason for each case.

(e) State two advantages and one disadvantage of specimen **E** to other living organisms.

Ans 1

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