

Candidate's Name: .....Signature: .....

553/2

BIOLOGY

Paper 2

2024

2½ hours



# MEBU EXAMINATIONS CONSULT

UGANDA LOWER SECONDARY CERTIFICATE OF EDUCATION

END OF TERM 1 ASSESSMENT 2024

BIOLOGY PRACTICAL

PAPER 2

2 HOURS 30 MINUTES

## INSTRUCTIONS TO CANDIDATES:

- ✓ This paper consists of **two** examination items. Answer **all** the items in the spaces provided.
- ✓ Drawings should be made in the spaces provided. Use **sharp pencils** for your drawings. Coloured pencils or crayons should **not** be used.
- ✓ No additional sheets of writing paper are to be inserted in the booklet.
- ✓ Work on additional sheets will **not** be scored.

**Item1.**

Mutebi is a 10 year old boy in Lutoboka. On many occasions, he has fallen sick and his parents have always taken him to Kalangala Referral Hospital for medication. Ms. Joan, a medical doctor in the same hospital told the parents to Mutebi that his sickness originates from poor feeding habits. The parents told the doctor that Mutebi feeds on food nutrients, K and G with a surplus of food stuffs containing mineral ions from salts and oils. The parents have still remained inquisitive and would wish to know what they are excluding in their son's meals.

## Task

Carry out a Biological investigation on the food samples, K and G and use your results to advise the parents to Mutebi appropriately. (15 scores)

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This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

**Item2.**

Kamuli Secondary School had some classrooms constructed out of plywood. After a period of about 3 years, Mr.Mugoya, the Director while carrying out his inspection, he found out that the plywood in S.4 and S.2 classes had gotten destroyed. This triggered him to call for an emergency meeting with the school administrators, in which the Head teacher requested for about Two million Uganda Shillings in order to have these plywood in the entire classrooms of the school replaced. In his response, Mr.Mugoya said “we are only left with one million Ugandan shillings on the school account to only pay teachers and we do not have more money for purchasing plywood”.

Specimens E and Q are the common ones that learners who study from these classrooms have been able to identify close to the areas of intensive damage.

**Task**

(a)(i).As a Biology student, help the school management of Kamuli Secondary School know the external features that enable both specimens E and Q to destroy the plywood of the classrooms such that they can have a clear picture on how to combat them. (04 scores)

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(ii).Explain to the Director which organism mainly is involved in the destruction of the plywood and help him understand where this organism is mainly found and what enables it to survive in its habitat. (04 scores)

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(b).Make a labeled drawing of the anterior view of the mandibles of specimen Q. (07 scores)

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