

**553/2 Inst. Sch.
Biology
Practical
Instructions
Oct./Nov. 2024**



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Certificate of Education

BIOLOGY PRACTICAL INSTRUCTIONS

553/2 Inst. Sch.

October/November 2024

CONFIDENTIAL

This information is given only to facilitate preparation of the examination.

Great care should be taken so that the information given below does not reach the candidates either directly or indirectly.

INSTRUCTIONS FOR PREPARING SPECIMENS AND APPARATUS

The teacher responsible for preparing specimens must ensure that candidates are provided with correct specimens and other materials as specified in these instructions. Specimens and solutions which have been assigned codes should be presented to candidates using those **codes only** and not any other identity. The head teacher **must** ensure that the teacher responsible for preparing the specimens hands in his/her procedure and trial results for the physiology/biochemistry item, properly sealed in a separate envelope and **firmly** fastened (attached) to the candidates' script envelope(s).

Each candidate should be provided with:

A freshly killed/well preserved tick, labelled **A**.

A freshly killed soldier termite, labelled **B**.

A freshly killed house fly, labelled **C**.

40 cm³ of dry soil, sample **L**.

(L is a uniform mixture of soil in the ratio of 2 sandy soil: 3 fine clay soil.)

40 cm³ of dry soil, sample **M**.

(M is a uniform mixture of soil in the ratio of 1 sandy soil: 9 fine clay soil.)

10 cm³ of 1 % sucrose solution, labelled **N**.

2 measuring cylinders (100 ml).

Hand lens.

Filter funnel.

Cotton wool.

2 beakers.

3 test tubes.

Stop clock.

Blue litmus paper.

Red litmus paper.

Access to:

Water.

Heat source.

Reagents for carrying out food tests.

This form MUST be completed and returned in a separate envelope firmly attached to the script envelope(s).

UGANDA CERTIFICATE OF EDUCATION

October/November, 2024

REPORT ON BIOLOGY PRACTICAL 553/2

Section I:

Any information which the teacher responsible for preparing the specimens and apparatus thinks may be useful to the examiners should be given on this sheet. The teacher must try out the physiology/ biochemistry item and submit his/her results indicating the procedure used in the space provided below to guide the examiners about the specimens, apparatus, and concentrations of the chemicals used.

NB: Teachers who **do not** submit their procedure and trial results will be held responsible for their candidates' performance.

Procedure and results:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface. There is no handwriting or other markings on the paper.

[illegible]

Section II:

The invigilator in consultation with the teacher responsible for preparing the specimens should give details below of any difficulties experienced by particular candidates, giving their names and personal numbers. This should include:

(a) Candidates who were unable to use specimens.

(b) Insufficiency of specimens or shared specimens.

(c) Substituted specimens.

(d) Any other information.

Other cases of hardship e.g. illness, disability, should be reported directly to **UNEB** in the normal way.

A plan of work benches, giving details by personal numbers of the places occupied by the candidates for each session, must be enclosed with the scripts.

DO NOT STAMP ANYWHERE ON THIS DOCUMENT.

Invigilator's Name _____ Signature _____

Signature of the teacher responsible for preparing specimen _____

Signature of the head teacher _____

Random Number _____