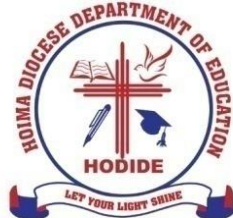


553/2 Inst. Sch.
BIOLOGY
PRACTICAL
Instructions
July/Aug. 2024



HOIMA DIOCESE EXAMINATIONS BOARD

Uganda Certificate of Education

BIOLOGY PRACTICAL INSTRUCTIONS

Paper 553/2 Inst.Sch.

July/August 2024

CONFIDENTIAL INFORMATION

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

Great care should be taken 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 preparing the specimens and apparatus hands in his / her trial results for physiology /biochemistry question, properly sealed in a separate envelope and firmly fastened to the candidates' script envelope.

The teacher should report cases of candidates with special disabilities indicating the personal numbers. Any case of interchange of specimens must be reported.

In addition to other pieces of apparatus and fittings ordinarily found in a Biology Laboratory, each candidate should be provided with the following:

25 cm³ of sample **A** (which is pure/distilled water).

25 cm³ of sample **B** (which is 50% sucrose solution).

Specimen **K** (fresh medium-sized Irish potato).

1 freshly killed worker bee, labelled specimen **Y**.

1 freshly killed worker termite, labelled specimen **X**.

1 whole mango leaf labelled **Q**.

1 whole Avocado leaf labelled **R**.

1 transparent ruler.

1 stop clock or stop watch.

2 beakers.

1 hand lens.

6 test tubes.

1 test tube holder.

1 test tube rack.

1 thermometer

Access to:

Source of heat.

Cork borer.

Knife/razor blade.

Droppers.

Reagents for food tests.

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 the physiology/ biochemistry question and submit his/her results 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 trial results will be held responsible for their candidates' performance.

Trial results for the teacher

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[Attach other sheets of paper with trial results in case the space above is not enough]

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 reference to:

(a) **Candidates who were unable to use specimens,**

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(b) **Insufficiency of specimens or shared specimens,**

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(c) **Substituted specimens,**

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(d) **Any other information.**

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

Name of Teacher responsible for preparing apparatus

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Signature: Date:

Name of Headteacher

Signature Date:

Name of school **Centre No.**

END