

P530/3  
Biology  
Confidential Instructions  
Paper 3  
July 2023



## ACEITEKA JOINT MOCK EXAMINATIONS 2023

Uganda Advanced Certificate of Education

### BIOLOGY PRACTICAL INSTRUCTIONS

Paper 3

**CONFIDENTIAL**

**CONFIDENTIAL**

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

#### INSTRUCTIONS FOR PREPARING APPARATUS

*The candidates will be instructed not to write out a detail's description of the apparatus.*

*But the teachers responsible for preparing the apparatus must give details (on the report form attached) about some of the items of apparatus he/she has supplied.*

*The form should be signed by the invigilator, the teacher responsible for preparing the apparatus and head teacher.*

**N.B**

*The headteacher must ensure that the teacher responsible for preparing the apparatus hands in his/her trial results properly sealed in a separate envelope and firmly fastened (attached) to the candidates' script envelope(s)*

**Provide each candidate with the following:**

One freshly killed Rat labeled K

Dissecting tray/ dish

10cm<sup>3</sup> of 10% extract of maize seeds germinated for one day labeled L;

10cm<sup>3</sup> of 10% extract of maize seeds germinated for four days labeled M;

10cm<sup>3</sup> of 10% extract of bean seeds germinated for one day labeled N

6 test tubes

Thermometer

Pestle and mortar

Fresh specimens of;

House fly labeled P

Beetle labeled Q

Worker bee labeled R

Spider labeled S

Millipede labeled T

Soldier termite labeled U

**Microscope**

Access to heat source and reagents for food tests

**This form must be completed and returned with the scripts.**

**ACEITEKA JOINT MOCK EXAMINATIONS**  
**Uganda Advanced Certificate of Education**

**July/August 2023**

**REPORT ON BIOLOGY PRACTICAL P530/3**

**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 all the questions on physiology and submit his/her results in the space provided below to guide the examiners about the specimens and concentrations of the chemicals used.

[NB: Teachers who **DO NOT** submit their trial results will be held responsible for the candidates' performance].

**Results:**

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**Turn Ov**

## Section II:

The invigilator, in consultation with the teacher responsible for preparing the apparatus, should give details below of any difficulties experienced by particular candidates, giving their names and index numbers. These 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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Name ..... Signature .....  
(Invigilator)

Name ..... Signature .....

(Teacher responsible for preparing apparatus)

Name ..... Signature .....  
(Head teacher)

School name: .....

Reference number: .....

Stamp and Date

END

553/2  
Biology  
Confidential Instructions  
Paper 2  
July 2023



## ACEITEKA JOINT MOCK EXAMINATIONS 2023

Uganda Certificate of Education

### BIOLOGY PRACTICAL INSTRUCTIONS

Paper 2

**CONFIDENTIAL**

**CONFIDENTIAL**

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

#### INSTRUCTIONS FOR PREPARING APPARATUS

*The candidates will be instructed not to write out a detail's description of the apparatus.*

*But the teachers responsible for preparing the apparatus must give details (on the report form attached) about some of the items of apparatus he/she has supplied.*

*The form should be signed by the invigilator, the teacher responsible for preparing the apparatus and head teacher.*

**N.B**

*The headteacher must ensure that the teacher responsible for preparing the apparatus hands in his/her trial results properly sealed in a separate envelope and firmly fastened (attached) to the candidates' script envelope(s)*

**Each candidate should be provided with:**

**6 test tubes**

One large sized Irish potato labelled **C**

Measuring cylinder

**20cm<sup>3</sup>** Hydrogen peroxide solution 2% labelled **D**

Cork borer 0.5cm

Honey Bee labelled **M**

Cockroach labelled **N**

Bryophyllum leaf with buds labelled **Y**

Ginger labelled **X**

Hydrochloric acid

Hand lens

Razorblade/knife

labels

*Reagents for food tests*

*Access to heat source*

**Turn Over**

**This form must be completed and returned with the scripts.**

**ACEITEKA JOINT MOCK EXAMINATIONS**  
**Uganda Certificate of Education**

**July/August 2023**

**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 all the questions on physiology and submit his/her results in the space provided below to guide the examiners about the specimens and concentrations of the chemicals used.

[NB: Teachers who **DO NOT** submit their trial results will be held responsible for the candidates' performance].

**Results:**

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**Turn Over**

## Section II:

The invigilator, in consultation with the teacher responsible for preparing the apparatus, should give details below of any difficulties experienced by particular candidates, giving their names and index numbers. These 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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Name..... Signature .....  
(Invigilator)

Name..... Signature .....

(Teacher responsible for preparing apparatus)

Name..... Signature .....  
(Head teacher)

School name: .....

Reference number: .....

Stamp and Date

END

P525/3  
**Chemistry**  
**Confidential Instructions**  
**Paper 3**  
July 2023



## ACEITEKA JOINT MOCK EXAMINATIONS 2023

Uganda Advanced Certificate of Education

### CHEMISTRY PRACTICAL INSTRUCTIONS

Paper 3

**CONFIDENTIAL**

**CONFIDENTIAL**

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

### INSTRUCTIONS FOR PREPARING APPARATUS

*The candidates will be instructed not to write out a detail's description of the apparatus.*

*But the teachers responsible for preparing the apparatus must give details (on the report form attached) about some of the items of apparatus he/she has supplied.*

*The form should be signed by the invigilator, the teacher responsible for preparing the apparatus and head teacher.*

**N.B**

*The headteacher must ensure that the teacher responsible for preparing the apparatus hands in his/her trial results - properly sealed in a separate envelope and firmly fastened (attached) to the candidates' script envelope(s).*

Each candidate should be provided with the following;

1 burette

1 pipette ( $20$  or  $25\text{cm}^3$ )

1 volumetric flask ( $250\text{cm}^3$ )

1 measuring cylinder ( $50$  or  $100\text{ cm}^3$ )

1 conical flask

1 filter funnel

1 filter paper

4 beakers

$100\text{cm}^3$  of GA1

$150\text{cm}^3$  of GA2

$50\text{cm}^3$  of GA3

Methyl orange indicator

6 test tubes

1 boiling tube

2g of P

3g of S

$5\text{cm}^3$  of W

*Easy access to reagents and heat source.*

GA1 is 1M hydrochloric acid.

GA2 is a solution made by dissolving 40g of sodium hydroxide in  $1\text{dm}^3$  of water.

GA3 is 0.1M sulphuric acid.

Solid P is oxalic acid

S is a mixture of Zinc acetate and Lead (ii) nitrate in a ratio of 3:2.

W is Acetophenone (Phenylethanone)

**This form must be completed and returned with the scripts.  
(Sealed in separate envelope and fastened to the scripts envelope)**

# **ACEITEKA JOINT MOCK EXAMINATIONS**

## **Uganda Advanced Certificate of Education**

July/August 2023

**REPORT ON CHEMISTRY PRACTICAL P525/3**

## **Section I:**

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

[NB: Teachers who DO NOT submit their trial results will be held responsible for the candidates' performance].

### **Results:**

## **Section II:**

The invigilator, in consultation with the teacher responsible for preparing the apparatus, should give details below of any difficulties experienced by particular candidates, giving their names and index numbers. These should include reference to:

- (a) difficulties due to faulty apparatus,

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- (b) accidents due to apparatus or materials,

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- (c) physical handicaps of candidates,

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- (d) any other information.

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Name..... Signature.....  
**(Invigilator)**

Name..... Signature.....

**(Teacher responsible for preparing apparatus)**

Name..... Signature.....  
**(Head teacher)**

School name: .....

Reference number: .....

**Stamp and Date**

**END**

535/3  
**Physics**  
**Confidential Instructions**  
**Paper 3**  
July 2023



## ACEITEKA JOINT MOCK EXAMINATIONS 2023

Uganda Certificate of Education

### PHYSICS PRACTICAL INSTRUCTIONS

Paper 3

**CONFIDENTIAL**

**CONFIDENTIAL**

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

#### INSTRUCTIONS FOR PREPARING APPARATUS

*The candidates will be instructed not to write out a detail's description of the apparatus.*

*But the teachers responsible for preparing the apparatus must give details (on the report form attached) about some of the items of apparatus he/she has supplied.*

*The form should be signed by the invigilator, the teacher responsible for preparing the apparatus and head teacher.*

**N.B**

*The headteacher must ensure that the teacher responsible for preparing the apparatus hands in his/her trial results properly sealed in a separate envelope and firmly fastened (attached) to the candidates' script envelope(s)*

**Each candidate should be provided with the following;**

**QUESTION ONE**

- 1 helical spring (nullified) with a pointer
- 1 metre rule
- 5 masses of *100g* each
- 1 knife edge
- 1 half metre rule
- 1 wooden block
- 1 retort stand with a clamp
- 2 pieces of thread about *50cm* long
- Stop clock /watch

**QUESTION TWO**

- 1 soft board
- 1 white sheet of paper
- 4 optical pins
- 4 drawing pins
- 1 complete geometry set
- 1 glass block (*about 11cm X 7cm X 2cm*)

**QUESTION THREE**

- 2 fresh dry cells
- 1 voltmeter (0-3V)
- 1 ammeter (0 -1A)
- 1 constantane wire *SWG 30* about *120cm* long
- 8 connecting wires each of about 50cm
- 2 pieces of Cellotape of about 5cm each
- 1 metre rule

**This form must be completed and returned with the scripts.  
(Sealed in separate envelope and fastened to the scripts envelope)**

**ACEITEKA JOINT MOCK EXAMINATIONS  
Uganda Certificate of Education  
July / August - 2023**

**REPORT ON PHYSICS PRACTICAL 535/3**

**Section I:**

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

[NB: Teachers who **DO NOT** submit their trial results will be held responsible for the candidates' performance].

**Results:**

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**Turn Over**

## **Section II:**

The invigilator, in consultation with the teacher responsible for preparing the apparatus, should give details below of any difficulties experienced by particular candidates, giving their names and index numbers. These should include reference to:

- (a) difficulties due to faulty apparatus,

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- (b) accidents due to apparatus

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- (c) physical handicaps of candidates,

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- (d) any other information.

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Name..... Signature.....  
**(Invigilator)**

Name..... Signature.....

**(Teacher responsible for preparing apparatus)**

Name..... Signature.....  
**(Head teacher)**

School name: .....

Reference number: .....

**Stamp & Date**

**END**

545/3  
Chemistry  
Confidential Instructions  
Paper 3  
July 2023



## ACEITEKA JOINT MOCK EXAMINATIONS 2023

Uganda Certificate of Education

### CHEMISTRY PRACTICAL INSTRUCTIONS

Paper 3

**CONFIDENTIAL**

**CONFIDENTIAL**

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

#### INSTRUCTIONS FOR PREPARING APPARATUS

*The candidates will be instructed **not** to write out a detail's description of the apparatus.*

*But the teachers responsible for preparing the apparatus **must** give details (on the report form attached) about some of the items of apparatus he/she has supplied.*

*The form should be signed by the invigilator, the teacher responsible for preparing the apparatus and head teacher.*

**N.B**

*The headteacher **must** ensure that the teacher responsible for preparing the apparatus hands in his/her trial results properly sealed in a separate envelope and firmly fastened (attached) to the candidates' script envelope(s)*

**Each candidate should be provided with the following;**

**1 burette**

**1 pipette (20 or 25cm<sup>3</sup>)**

**1 conical flask**

**1 filter funnel**

**1.filter paper**

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**2 beakers**

**100cm<sup>3</sup> of CA1**

**50cm<sup>3</sup> of CA2**

Methyl orange indicator

**6 test tubes**

**1 boiling tube**

**2g of T**

*Easy access to reagents and heat source*

**CA1 is a solution made by dissolving 2g of sodium hydroxide in 1dm<sup>3</sup> of water.**

**CA2 is 0.05M sulphuric acid.**

**T is a mixture of Aluminium sulphate-16-water and Iron (ii) sulphate-7-water in a ratio of  
3:1**

**This form must be completed and returned with the scripts.  
(Sealed in separate envelope and fastened to the scripts envelope)**

**ACEITEKA JOINT MOCK EXAMINATIONS**

**Uganda Certificate of Education**

**July/August 2023**

**REPORT ON CHEMISTRY PRACTICAL 545/3**

**Section I:**

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

[NB: Teachers who **DO NOT** submit their trial results will be held responsible for the candidates' performance].

**Results:**

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**Section II:**

The invigilator, in consultation with the teacher responsible for preparing the apparatus, should give details below of any difficulties experienced by particular candidates, giving their names and index numbers. These should include reference to:

- (a) difficulties due to faulty apparatus,

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- (b) accidents due to apparatus or materials,

.....

- (c) physical handicaps of candidates,

.....

- (d) any other information.

Name..... Signature.....  
(Invigilator)

Name..... Signature.....

(Teacher responsible for preparing apparatus)

Name..... Signature.....  
(Head teacher)

School name: .....

Reference number: .....

**Stamp and Date**

**END**

527/2  
**Agriculture**  
**Confidential Instructions**  
**Paper 2**  
July 2023



## ACEITEKA JOINT MOCK EXAMINATIONS 2023

Uganda Certificate of Education

### AGRICULTURE PRACTICAL INSTRUCTIONS

Paper 2

**CONFIDENTIAL**

**CONFIDENTIAL**

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

#### INSTRUCTIONS FOR PREPARING APPARATUS

*The candidates will be instructed **not** to write out a detail's description of the apparatus.*

*But the teachers responsible for preparing the apparatus **must** give details (on the report form attached) about some of the items of apparatus he/she has supplied.*

*The form should be signed by the invigilator, the teacher responsible for preparing the apparatus and head teacher.*

**N.B**

*The headteacher **must** ensure that the teacher responsible for preparing the apparatus hands in his/her trial results properly sealed in a separate envelope and firmly fastened (attached) to the candidates' script envelope(s)*

Each candidate should be provided with:

**A** - Black Jack

**B** – Oxalis latifolia

**C** – Couch grass (Digitaria scabra)

**D** – Sand soil

**E** – Clay Soils

**F** – Maize attacked by stalk borer

**G** – Maize plant affected with Maize stalk borer

**H** – Sweet potato tuber attacked by sweet potato weevil.

**R<sub>1</sub>** - Spark plug with wide gap and carbon coating

**R<sub>2</sub>** – Crankshaft

**R<sub>3</sub>** – Radiator

**R<sub>4</sub>** – Air cleaner / Paper or Oil bath

**R<sub>5</sub>** – Ignition Coil.

**M** – Reproductive system of a fowl.

With labels

**M<sub>1</sub>** – Ovary

**M<sub>2</sub>** – Lufindiblum (funnel)

**M<sub>3</sub>** – Isthmus

**M<sub>4</sub>** – shell gland uterus

**M<sub>5</sub>** – vagina.

- Measuring cylinders 3 for each student  $100\text{cm}^3$
- Access to water
- Ruler

**This form must be completed and returned with the scripts.  
(Sealed in separate envelope and fastened to the scripts envelope)**

**ACEITEKA JOINT MOCK EXAMINATIONS  
Uganda Certificate of Education**

**July/August 2023**

**REPORT ON PRINCIPLES & PRACTICES OF AGRICULTURE 527/2**

**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 all the questions on physiology and submit his/her results in the space provided below to guide the examiners about the specimens and concentrations of the chemicals used.

[NB: Teachers who **DO NOT** submit their trial results will be held responsible for the candidates' performance].

**Results:**

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**Turn Over**

## **Section II:**

The invigilator, in consultation with the teacher responsible for preparing the apparatus, should give details below of any difficulties experienced by particular candidates, giving their names and index numbers. These 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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Name..... Signature .....

(Invigilator)

Name..... Signature .....

(Teacher responsible for preparing apparatus)

Name..... Signature .....

(Head teacher)

School name: .....

Reference number: .....

**Stamp and Date**

**END**