

545/3/ Inst. Sch.
CHEMISTRY
Practical Instructions
Paper 3
July/August 2023



WAKISSHA JOINT MOCK EXAMINATIONS
Uganda Certificate of Education
CHEMISTRY PRACTICAL INSTRUCTIONS
Paper 3

CONFIDENTIAL:

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

INSTRUCTIONS FOR PREPARING APPARATUS AND CHEMICALS.

N.B: (The head teacher **must** ensure that the teacher responsible for preparing the apparatus hands in his/her trial results in a properly sealed envelope and **firmly** fastened/attached to the candidates' scripts envelope).

In addition to the common laboratory reagent, each candidate should be provided with the following:

- **One** burette (50ml)
- **One** pipette (20/25ml)
- **Two** conical flasks
- **One** retort stand with a clamp
- **One** filter paper and filter funnel
- Methyl orange indicator
- **Six** test tubes
- 100cm³ of BA1
- 100cm³ of BA2
- 2g of Q

Easy access to;

- Heat source
- Common reagents for identifying cations, anions and gases.
- Distilled water

BA1 is made by dissolving 20.0g of hydrated sodium carbonate to make 1 litre of solution;

BA2 is a 0.2M hydrochloric acid solution.

Q is a mixture of ammonium carbonate. $(\text{NH}_4)_2\text{CO}_3$ and Lead (II) carbonate PbCO_3 in the ratio 1:1

END

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**BIOLOGY PRACTICAL
INSTRUCTIONS**
July/August 2023



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

BIOLOGY PRACTICAL INSTRUCTIONS

Paper 2

CONFIDENTIAL;

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 and displayed clearly for candidates to see.

The head teacher **must** ensure that the teacher responsible for preparing the specimens and apparatus hands in his/her trial results for physiology/biochemistry question, properly sealed in a separate envelope and **firmly** fastened (attached) to the candidates' scripts envelope(s).

Each candidate should be provided with the following;

- A piece of rhizome of cannalily/Ginger with buds and adventitious roots, labelled **R**.
- A medium sized Onion bulb, labelled **S**.
- A medium sized fresh Irish potato, labelled **A**.
- A small sized fresh carrot, labelled **B**.
- A cervical vertebra, labelled **K**.
- A Lumbar vertebra, labelled **L**.
(both **K** and **L** must be obtained from the same animal)
- 50cm³ of 1% Hydrogen peroxide, labeled **Q**.

Access to:

- 6 Test tubes
- 1 Boiling tube
- 10ml measuring cylinder
- A knife
- Labels
- Distilled water
- Heat source.

END

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**PHYSICS PRACTICAL
INSTRUCTIONS**
July/August 2023



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PHYSICS PRACTICAL INSTRUCTIONS

Paper 3

CONFIDENTIAL;

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INSTRUCTIONS FOR PREPARING APPARATUS.

The candidate will be instructed not to write out a detailed description of the apparatus. But the teacher responsible for preparing the apparatus must give details (on the report form attached) about some of the items of apparatus he/she supplied. This form should be signed by the invigilator, the teacher responsible for preparing the apparatus and the headteacher.

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).

QUESTION 1:

1. **One** Retort stands with clamp
2. **Two** wooden blocks (0.5cm x 4cm x 4 cm)
3. **One** 50g mass hang
4. **Five** 50g slotted masses.
5. **One** nuffield spring (short black)
6. **One** half metre rule
7. **One** stop clock

QUESTION 2:

1. **One** Glass block about (11cm x 6cm x 2cm)
2. **One** soft board (enough to hold, A₄, white sheet of paper)
3. **Four** drawing pins
4. **Four** optical pins
5. **One** Geometry set
6. **One** white sheet of paper

QUESTION 3:

1. **Two** dry cells (each fresh 1.5V size D) in a cell holder
2. **One** switch Labelled K
3. **One** volt meter (0-3V)
4. **One** constantan wire (SWG 28), 105cm long fixed on a metre rule.
5. **Two** crocodile clips
6. **Two** pieces of cellotape
7. **Eight** pieces of connecting wires.

END

**527/2 Inst. Sch.
Principles and
Practices of Agriculture
INSTRUCTIONS
July/August 2023**



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

PRACTICAL INSTRUCTIONS

Paper 527/2 Inst. Sch.

CONFIDENTIAL INSTRUCTIONS

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 and apparatus must ensure that candidates are provided with the 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.

A candidate is to be provided with each of the specimens. Where a specimen is to be used by more than one candidate, the teacher must devise a suitable system to enable the candidate to take turns at that specimen.

Each candidate should be provided with the following:-

1. A - (Pounded dry clay soil)
B - (Pounded dry loam soil)
2. C₁ – Cow dung
C₂ – Dry grass
C₃ – NPK fertilizers
C₄ – Kitchen wastes/ refuse/Peelings
C₅ – Maize stalks
C₆ – Wood ash
C₇ – Top soil
3. E – brown ear tick
F – round worm
4. G₁ – Spirit level
G₂ – Builder's try square
G₃ – Plumb bob
G₄ – Tape measure
5. Q – A whole mature bean plant / soy bean plant with pods
6. Hand lens.

END