REQUIREMENTS

In addition to the apparatus ordinarily contained in the physics laboratory, each candidate will require,

Question 1

- **One** half metre rule.
- **Two** metre rules.
- **Four** pieces of thread, each of length 80.0 cm long.
- **One** Retort stand with a clamp.
- **One** stop clock or stop watch.
- Triple beam balances or weighing scales; which record to at least, 1dp; for common use by all candidates.

Question 2

- **One** glass block of dimensions $(11.5 \times 6.5 \times 1.8cm)$.
- **One** soft board.
- **Four** optical pins.
- **Four** thumb pins/drawing pins.
- **Two** plain white sheets of paper (Tracing paper).
- **One** mathematical set.

Question 3

- **Ten** Pieces of connecting wires (about 50cm long).
- **One** Potentiometer.
- **One** Metre bridge.
- **One** Jockey (sliding contact).
- **Three** Fresh dry cells (1.50 V), one of which labeled E.
- **Two** Switches labelled K_1 and K_2.
- **Two** Pieces of cello tape.
- **One** piece of constantan wire of length 110cm long (SWG 30); labelled W.
- **One** Double cell holder.
- **One** Single cell holder.
- **One** Centre zero galvanometer.
- **Two** crocodile clips.
- **One** ammeter (0 – 1 A).
- **One** voltmeter (0 – 3V).
- **One** 2.0Ω standard resistor.

END

P525/3/Inst. Sc.
CHEMISTRY PRACTICAL
INSTRUCTIONS
Paper 3
July/August 2023

WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

CHEMISTRY PRACTICAL INSTRUCTIONS
(Paper P525/3/Inst. Sc.)

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.

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

1. The description of the reagents and chemicals specified below does not necessarily correspond with the description in the question paper. Candidates must not be informed of the difference.

2. Candidates are **not** allowed to use reference books (i.e. textbooks, booklets on qualitative analysis etc.) during the examination.

3. On addition to the common reagents and apparatus used in chemistry laboratory, each student should have the following.

- 1 burette of 50 cm^3 capacity
- 1 pipette (25 cm^3 or 20 cm^3)
- 1 filter paper
- 1 thermometer
- 2 conical flasks
- 1 funnel
- 1 volumetric flask of 250cm^3
- 8 test tubes
- 100 cm^3 of **GA_1**
- 200 cm^3 of **GA_2**
- 200 cm^3 of **GA_3**
- 1.0g of solid **Z**
- 2.5g of **T**
- 3.0g of solid **Q**

Easy access to:

- Weighing scale which can weigh to atleast 1dp.
- Heat source
- Reagents used to identify organic functional groups, cations, anions and gases.

GA_1 is made by dissolving **1.6g** of sodium nitrite ($NaNO_2$) in distilled water to make one litre of solution.

GA_2 is made by dissolving **3.2g** of potassium permanganate in distilled water to make one litre of solution.

GA_3 is 2M sulphuric acid

Solid **Z** is oxalic acid

Substance **T** is a solid mixture of **aluminum sulphate and zinc acetate (zinc ethanoate)** in ratio of **1:1**

Solid **Q** is citric acid

END

P615/1/2 Inst. Sc.
Fine Art Instructions
Paper 1 & 2
July/August 2023

WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

FINE ART

Papers 1 and 2

CONFIDENTIAL

INSTRUCTIONS;

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

INSTRUCTIONS FOR PREPARING THE ITEMS;

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

The head teacher should make sure that the teacher responsible for preparing the items get all of them ready before the examination.

REQUIREMENTS:

The following items should be made available for setting **not** more than **two** hours to the sitting of the paper on the day of the examination.

P615/1

- 20 Litre Jerrycan
- 5 big cassava tubers
- 2 big pumpkins
- A fresh banana leaf
- A panga
- A wicker work basket (about 30cm diameter x 40cm high)
- Cockroach
- Hand lens x10
- Low table

P615/2

- A model
- Shirt/blouse
- A neck tie
- A coat
- A trouser
- Office chair
- A loaf of bread

- A model
- A vest
- Shirt/blouse
- Chair
- A table/desk

- Coloured pencils, paint brushes and other related materials for painting

END

612/2/3 Inst. Sc.
IPS Instructions
Paper 2 & 3
July/August 2023

WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

INTEGRATED PRODUCTION SKILLS

Papers 2 and 3

CONFIDENTIAL

INSTRUCTIONS;

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

INSTRUCTIONS FOR PREPARING THE ITEMS;

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

The head teacher should make sure that the teacher responsible for preparing the items get all of them ready before the examination.

Turn Ov

REQUIREMENTS:

The following items should be made available for setting **not** more than **two** hours to the sitting of the paper on the day of the examination.

612 /2

- Low table
- Banana leaf
- A bunch of matooke
- 2 big cabbages
- Big onions
- Big tomatoes
- Big avocadoes
- Mangoes
- 50kg empty sack
- Gumboots
- A hoe
- Panga
- Sweet potatoes
- Uprooted pineapple plant
- Hand lens
- Soldier termite

612/3

- Female/male youth
- Sleeveless blouse/shirt
- Office chair
- Office table
- Counter book
- Short sleeved shirt/blouse
- Shoes
- Stool
- Box file

END

553/2 Inst. Sch.
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)
- $50cm^3$ 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

535/3 Inst. Sch.
PHYSICS PRACTICAL
INSTRUCTIONS
July/August 2023

WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PHYSICS PRACTICAL INSTRUCTIONS

Paper 3

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 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, A_4, 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

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
- $100cm^3$ of BA1
- $100cm^3$ 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 1litre of solution;

BA2 is a 0.2M hydrochloric acid solution.

Q is a mixture of ammonium carbonate, $(NH_4)_2CO_3$ and Lead (II) carbonate $PbCO_3$ in the ratio 1:1

END