

Candidates'

Name:.....

Signature:.....

545/1

CHEMISTRY

PAPER 1

2 HOURS

KIYALA HIGH SCHOOL
MID TERM 2 ASSESSMENT TEST 2025
CHEMISTRY
S2

INSTRUCTIONS:

- This paper consists of **two** sections, **A** and **B**. It has **five** examination items.
- Section **A** has **two** compulsory items.
- Responses to this section are to be written in the **spaces** provided in this booklet.
- Section **B** has **two** parts, **part one** and **part two**.
- Answer **one** item from **each** part in section **B**.
- Responses to this section are to be written in the **answer booklet** provided.
- Any additional item answered will not be scored.
- An **untidy** work will lead to loss of scores.

FOR SCORER'S USE ONLY	
SECTION A	
SECTION B	
TOTAL SCORE	

SECTION A

(Attempt *all items* in this section)

Item 1:

In many Ugandan homes, cooking is still done over fires fueled by charcoal, which is a black, brittle solid. Whenever cooking is done, a gaseous product is often released which has made concerns from people to arise concerning the would be long term impact of this gas. You have been approached as a knowledgeable person to give a hint on this matter.

Task;

As a learner with good knowledge of chemistry;

a) Help the locals to;

i. Identify the major substance found in charcoal.

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ii. Give the Category of this substance.

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iii. List typical physical properties of the substance that are characteristic of its category.

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b) Discuss the environmental impact of widespread charcoal production.

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Item 2:

Along the shores of Lake Victoria, fishing is a major economic activity. Traditionally, some fishing nets were made from fibres, but nowadays, most are made from nylon. Unfortunately, old and damaged nylon nets are often discarded directly into the lake.

Task;

As a learner of chemistry;

- a) Identify the category of the polymer used nowadays.

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- b) Predict the properties that make nylon a preferred material for modern fishing nets over fibres.

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- c) Discuss the long-term environmental impact of discarded nylon fishing nets in Lake Victoria.

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SECTION B

PART I

(Attempt *one item* in this part)

Item 3:

Nitrogen is used in food and beverage storage, to create an inert environment to extend their shelf life. An investor has opted to open up a Nitrogen production plant in Buikwe district. However, the residents of the area need to be sensitized about the production process of nitrogen. A meeting with the community has been organized and your school has been invited to sensitize the residents.

Task;

As a learner of Chemistry, prepare a write-up that you would use to sensitize the residents.

PART II

(Attempt *one item* in this part)

Item 4:

Natural resources have been destroyed as a result of human activities and increasing population. This has attracted the attention of officials from the National Environment Management Authority (NEMA). The officials have planned to create awareness among people countrywide through organizing various workshops in different regions of the country.

Task;

As a chemistry student, prepare a short presentation that you will deliver during a workshop organized in your area.

Item 5:

Kisoro, a picturesque village nestled among rocky hills in southwestern Uganda, has long depended on stone quarrying as a primary source of livelihood. The rugged terrain, rich in stone deposits, provided ample opportunities for the villagers to earn a living by extracting and selling stone. However, the extensive quarrying activities have led to environmental concerns. Recognizing the severity of these issues, the government has stepped in to provide assistance and create awareness.

Task;

As a chemistry learner, prepare a simple write-up that the government should base on when addressing the residents.

END