

Candidates'

Name:.....

Signature:.....

545/1

CHEMISTRY

PAPER 1

2 HOURS

KIYALA HIGH SCHOOL
MID TERM 2 ASSESSMENT TEST 2025
CHEMISTRY
S3

INSTRUCTIONS:

- This paper consists of **two** sections, **A** and **B**. It has **six** 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.

(Where necessary, Use; $Ca = 40$, $C = 12$, $O = 16$, 1 Mole of a gas occupies $24dm^3$ at r.t.p)

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

SECTION A

(Attempt *all items* in this section)

Item 1:

Aunt Jane is preparing for a big family gathering and discovers a large, greasy food stain on her favorite silk tablecloth. She grabs a bar of her usual laundry bar soap and starts vigorously washing the tablecloth. She notices some dirty brown substance on the surface of water with hardship in forming leather during washing. This left her wondering why and how.

Tasks:

As a learner of chemistry;

a) Help Aunt Amina to;

- i. Identify the category of the detergent she used, and suggest a more appropriate detergent category she can opt for.

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- ii. Explain to her on how the recommended detergent Works.

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- b) Point out the Implications of the long-term use of these detergents on the environment.

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c) Give an evaluation of the products.

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Item 2:

Major construction projects in Uganda, including buildings and roads, rely heavily on cement. A key raw material for cement production is limestone (calcium carbonate, CaCO_3), which is mined in large quantities. The cement factory processes 1000 kg of pure limestone to produce lime according to the equation below.



Task:

Using your chemistry knowledge;

a)

i. Give the Category substance being processed.

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ii. Suggest the properties of this substance that are characteristic of its category.

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SECTION B

PART I

(Attempt only *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 identified and invited to sensitize the residents.

Task:

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

Item 4:

Due to high prices of synthetic washing products in some parts in Uganda. A women's group in Kisoga village, Mukono district is planning to manufacture a soapy detergent as a new business project to reduce on their expenses.

The group is planning to set up a soapy detergent production plant. However, some locals of this village are also complaining that their valuable land is about to be taken up by these women. The science club in your school has appointed you to sensitize the locals on this.

Task;

Prepare a write up that you will use during the presentation.

PART II

(Attempt only *one item* in this part)

Item 5:

The conversion of wetlands for agriculture and infrastructure development around urban centers in Uganda is leading to significant impacts. NEMA is launching a campaign to educate the public about the crucial functions of wetlands. You have been chosen to be part of NEMA's sensitization campaign.

Task:

As a chemistry learner, prepare a write-up you will deliver.

Item 6:

Due to high fertility rates in Teso region, people resorted to destroying natural resources due to increasing population and many other human activities, this has brought much concern to the ministry responsible for resource management.



The ministry is planning to organize a sensitization workshop for the people of Teso region about natural resources conservation. You have been invited to give a speech on resources.

Task;

Write a speech you will deliver during the sensitization workshop.

END