

KIYALA HIGH SCHOOL
MID-TERM TWO ASSESSMENT TEST 2024

CHEMISTRY

S.4

Time: 2 Hours

INSTRUCTIONS:

- This paper consists of **four** assessment items.
- Section **A** has *two compulsory* item.
- Section **B** has *two* items, Attempt *all* the items
- Use of *illustrations* and *drawings* will earn you more scores.
- Any additional item answered will not be *scored*.

SECTION A

*Answer the **all item** in this section*

Item 1

Most of the youths in ADUK village in eastern Uganda are involved in cutting trees, burning the wood and finally using the finally using products for cooking. Residents are frustrated with toxic fumes from the activities. They are curious and beseech to know the nature and composition of the product and why the activities.



The chairperson has contacted you as a chemistry student for guidance on what she is about to communicate in the community meeting.

Tasks;

(a) Guide the chairperson on

(i) Nature of the product

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(ii) Composition of the product

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(b) Her concern is “ can these activities have any impact to their community?” Advise her

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(c). “Are these activities worth benefiting the residents?” Take her through

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Item 2

A new knitting firm in Entebbe Uganda makes sweaters from cotton. However, clients are complaining that these are easily decomposed by moths and carpet beetles. The operations manager has heard of nylon as an alternative. She is uncertain of its nature, composition and effect on the natural well-being of the community.



She has contacted you as someone with knowledge of chemistry to guide her in making a better choice.

Tasks;

(a) Guide the manager on

(i) The composition of the selected alternative material

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(ii) The characteristics of the material

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(b) He is inquisitive about its use. Advise her

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(c) “Will the selected alternative have an effect on natural well-being of the community?” Take him through

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SECTION B

Attempt all items in this section.

Item 3

Uganda electrical engineers’ forum has raised a concern of reduced copper wires in the country.

In response, the government has contracted an investor to set up a new copper extraction plant in Kasese, a copper ore rich district.



Unfortunately, the investor has some doubts on his scientific knowledge on the production process and the likely impact on the environment.

Task;

As a chemistry student, write a message to the investor to settle his doubts before his final interaction with residents.

Item 4

The ladies in Otunu women's group in Mbarara district have given up on using soap in their homesteads due to its price fluctuation in the region.

The chairperson of the group has a suggestion of processing liquid soap as an alternative since it's cheaper.



However, she has some doubts whether it's a better choice and its impact to their ecosystem.

Task;

She has approached you as a chemistry student settle her doubts. Write a message to guide her in her presentation in the forthcoming group meeting.

Compiled by Solomon