

KIYALA HIGH SCHOOL

MID-TERM ASSESSMENT TEST 2025

CHEMISTRY

S.3

Time: 2 Hours

INSTRUCTIONS:

- This paper consists of *two sections*, A and B. It has *five* examination items
- Section A is compulsory, Attempt *all* items in this section
- Responses to this section are to be written in the *spaces* provided in this *booklet*.
- Answer *two* items from *section B*, choosing *one* from *each part*.

Section A

(Answer all items in this section)

Item 1

A businessman who runs a shoe boutique in Kampala city has received numerous complaints from customers regarding the poor quality of the shoe soles. As a result, he is looking to find high-quality, environmentally friendly shoe soles. Despite the availability of various shoe soles of different qualities and compositions in the global market, he does not know which ones to stock.



NON MARKING SHOES



The businessman is aware that the quality of shoe soles depends on the nature of the material used and he is now seeking advice from you on this matter.

Task:

a) As a chemistry learner; explain the:

i) category of the product.

(3 Scores)

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ii) suitability of the product.

(2 Scores)

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- b) Advise him on the choice of the product he should opt for. (3 Scores)

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Item 2

"Common salt," a crucial substance in our lives, is extracted from Lake Katwe. It's a fundamental household chemical, but many in the community lack sufficient knowledge about its properties and uses.



A community member seeks your expertise to gain clarity since you have enough knowledge of chemistry.

Task

As a learner of chemistry;

- a) Provide a detailed explanation of:

- i) The classification of this chemical compound.

(3 Scores)

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- ii) The properties of the chemical compound.

(2 Scores)

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- iii) The uses of the chemical compound.

(2 Scores)

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b) Discuss the environmental implications of this compound.

(3 Scores)

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Section B

PART I

(This part consists of one compulsory item).

Item 3

Air which is a mixture of different components. In military marine soldiers and sea divers, highly use oxygen for respiration in water. Besides this, liquid nitrogen is also used in medical research to keep tissue samples frozen. This has therefore increased demand for oxygen by marine soldiers and sea divers and Nitrogen by the researchers at Entebbe hospital for their respective purposes.

The government supply of both Oxygen and Nitrogen is not enough and is planning to set up production plant with minimal environmental impact.



However, the science club members in your school would like to know how the process of production will be carried out.

Task:

As chemistry students, make a write up you will undertake in the production process. (11 scores)

PART II

(Answer one item from 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.
(11 scores)

Item 5:

In the bustling town of Nkondo, situated on the picturesque shores of Lake Victoria in the Kamuli District, the community faces a pressing challenge of dwindling water resources. The town's rapid growth, coupled with the increasing demands of agriculture, industry, and domestic use, has put a strain on the available water supply.



The chairperson of Nkondo town has organized an emergency meeting with the theme:
"Water Conservation is Everyone's Responsibility"

Task

As a chemistry learner who is a member of the town, make a write-up about the theme that you will present in the town meeting upon invitation.
(11 scores)

SUCCESS