

NAME: _____ STREAM: _____

SIGNATURE: _____

UGANDA CERTIFICATE OF EDUCATION

End of Term 3 Examination 2024

S.1 CHEMISTRY

2 hours

INSTRUCTIONS:

Answer ***all*** items in section ***A*** and ***B***

Answers to Section A ***MUST*** be written in the space provided.

For Examiner's Use Only.

Items	1	2	3	4	Total
Scores					

SECTION A

*Answer both **items** in this section in the space provided .*

Item 1

The government of Uganda wants to construct a new strong dam in Ntanda falls along River Nile in order to increase on hydroelectric production in Jinja District. It was hired a Chinese dam construction Company to execute this exercise using different building materials on market that have minimal impact to the environment. The Chief Engineer

of the company has promised the government that he would select a suitable materials to be used basing on their qualities.



The Cheif Engineer has decided to seek for advice from a person with good knowledge of chemistry.

Task

- a. help him identify the categories of materials to be used with reason.

- b. advise him on the suitability of the materials to be used.

- c. Help him know the impacts of using the materials to the environment and their measures.



Item 2.

A farmer in village without electricity always keeps his garden tools outside the house after the work. After sometime , his tools developed a brown coating and he was disturbed about what happened.

Task:

As a chemistry student;

- a. Point out the environmental factors that led his tools to develop the brown coating

- b. State the properties of the one of the environmental factors listed in (a) above.

c. What are the uses of the environmental factor in (a) above ?

d. What is the impact of the brown coating on tools and how it is solved?

SECTION B

Answer **all** items in this section on the answer booklets provided

Item 3

Air which is a mixture of different components contains 21% oxygen. Due to a wide spread of respiratory illnesses caused by COVID-19, there was an increased demand for oxygen by patients in hospitals. The government supply of oxygen is not enough and is planning to set up an oxygen 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 student, make a write up you will use during the presentation.

Item 4.

“Residents of Kampala are facing severe health risks due to poor air quality,” was a headline in one of the recent editions of the New Vision newspaper. With the city’s reputation tarnished and residents’ health hanging in the balance, urgent action to raise awareness and clean the natural resource is needed, the paper continued to state.

The Kampala Capital City Authority (KCCA) is getting ready to improve the situation following the alarming revelation.



As a student of Chemistry who has learned about air as a natural resources

Task

Write an article KCCA would use in response to the paper to sensitize the community of Kampala.