

NAME:.....STREAM:.....

UGANDA CERTIFICATE OF EDUCATION

End of term one examination 2025

S.2 CHEMISTRY

Duration: 1hr:30

Instruction;

This paper consists of section A and B.

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

*Answers to section B **Must** be written on the answer sheet provided.*

Section A

Attempt all items in this Section in the space provided

Item 1

In Busamaga ward, Mbale City, modern building has been completed but several huge cracks have developed and the building are about to collapse. Residents are planning to arrest and beat the construction workers, accusing them of using sub-standard materials. The chairperson Local Council 1 together with the community officer have organized a community meeting to talk to the residents and discuss other possible alternatives to rebuild the society's house without affecting the environment.

Task

Use your chemistry knowledge to;

a) Explain;

i) the **category** of the **materials**.

.....
.....

ii) the **suitability** of the **material**.

b) Advise residents and the concerned authorities on the **choice** of the materials.

Item 2

A friend in s.2 found you reading about $^{23}_{11}\text{Na}$ and wanted to know the relevance and its application in the daily life.

Task

As a student of chemistry;

(a) explain to him the **category** of the **element**

(b) explain to him the **properties** of the **element**.

(c) Give him the **uses** of the **element**

(d) Help him understand the **impact** of the **element** to the **environment**

Section B

*Attempt **all items** in this Section on the **answer sheet provided**.*

Item 3

Air is the most vital in the physiology of most animals including human beings. Due to a wide spread of respiratory diseases caused **COVID-19**, there was increase in the **demand of oxygen** by patients in Uganda in hospitals. The government supply of oxygen is not enough and it is planning to set up an **oxygen production plant** with minimal environmental impacts. However, the local people around your school would like to know **the process of production** and how it will be carried out.

Task

As a chemistry student, make a write-up you will use during the representation

Item 4

Kisori rock hills in South Western in Uganda depends on **stone quarrying** has resulted into **seasonal changes, water shortage** and **reduced air quality** and **water contamination**. Basing on this background, the government wants to make a sensitization about the issue

Task

Write a message that the government would use in the sensitization.