

NAME: _____ SIGN: _____

INSTRUCTIONS TO SEMI-CANDIDATES:

- Section A is compulsory and you choose one question from each part in section B

SECTION A

ITEM 1

One of the most important salts in human life is mines from Lake Katwe. The salt is a household chemical compound hence it is given a name common salt. Most of the people in the community have insufficient knowledge on the nature of this salt and importance in their life. One of the community members has identified you as knowledge



Task

Guide him on;

(a) The category of this chemical compound.

(b) The suitability of the chemical compound.

(c) How the compound is beneficial to the people in the community

ITEM 2

An industry wanted to produce lime for treatment of acidic soil. The production of lime involves heating limestone strongly which results into its decomposition according to the equation.



The industry is also interested to know much gas is evolved during the process since the gas is useful.

Before the production, an experiment was performed where 25g of limestone were heated until there was no further change. You have been contacted for help.

Task:

As a chemistry student;

a) Explain the category of the products

b) Suggest the properties of the product that makes it useful in daily life

c) Calculate the volume of the gaseous product measured at s.t.p that was formed.

d) Explain the impact of one of the products on the environment.

SECTION B PART I

Attempt any one question from this part on the answer booklets provided

ITEM 3

Mutungo village has been hit hard by red eye outbreak. The village is known for its yellow bananas, which are used to make local drink called “Tonto”. But because of the outbreak is getting worse, the ministry of the health has locked down the village. Now, a businessman from nearby town wants to invest in the processing of the yellow bananas into a longer lasting product. The villagers are curious and wondering how this will work and how it will affect their community.



You have been invited by the local leaders to sensitize the locals.

Task: Prepare a presentation you will make during the meeting

ITEM 4

A parent of a senior four candidate in one of the villages in Kaberamaido District belongs to a “women’s development group”. The members of the group have come up with a project idea of making soap which they think they can sell to the nearby shops and obtain revenue. However, none of the members has knowledge about soap making. But the parent suggested a name of a S.3 candidate to the executive committee of the group as a rescuer and the committee has approached him/her for guidance.

TASK:

As a chemistry student, write a brief message that a candidate will deliver to the group members

ITEM 4

A parent of a senior four candidate in one of the villages in Kaberamaido District belongs to a “women’s development group”. The members of the group have come up with a project idea of making soap which they think they can sell to the nearby shops and obtain revenue. However, none of the members has knowledge about soap making. But the parent suggested a name of a S.3 candidate to the executive committee of the group as a rescuer and the committee has approached him/her for guidance.

Task

As a chemistry learner, Write a brief message that candidate will deliver to the group members.

PART II

Attempt only one items from this part.

ITEM 5

In the village of Nkondo which is on lake shores in Kamuli District, people are found washing near the lake, practicing agriculture and setting up industries. They are now facing a challenge of low water quality.

The chairperson of Nkondo village has organized an emergency meeting with a theme:

“WATER CONSERVATION IS EVERYONE’S RESPONSIBILITY “

Task



As a chemistry learner who is a member of the village make a write up about the theme that you will present in the village meeting upon invitation.

ITEM 6

During her school holidays, Eva visited her Aunt who works at a stone quarry, she noticed that explosives were being used to blast big rocks to form small stones (aggregates) and there was a lot of dust rising into air. Besides the social benefits, Eva was concerned about what would happen to the site and community if the activity continued overtime.

Task

As a learner of chemistry, make a write up to respond to Eva’s concern.

END

