DIVINE SECONDARY SCHOOL KITALA

**UGANDA NATIONAL LOWER SECONDARY**

END OF TERM II EXAMS 2024

**S.3 CHEMISTRY**

**TIME: 2 ½ HOURS**

NAME……………………………………………………………………………………………………………….. SIGN…………………………….

*INSTRUCTIONS TO SEMI-CANDIDATES*

ATTEMPT ALL ITEMS.

**ITEM ONE**

In the community where you live, charcoal burning and selling is a thriving business that many people have joined because of the rich forest cover present.

Whereas cutting down trees for charcoal burning is a bad practice, people sell charcoal at good prices and have supported their families from the profits obtained.

**Task**

As a senior three learner who has learnt about carbon in life, prepare a report to share with the people in your community about other carbon-based fuels that they can resort to other than charcoal. In your report talk about the dangers of deforestation as well.(10 scores)

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**Item 2.**

Makanga and Mwebesa, who are neighbours in the village joined the same school whose source of water is a borehole. Makanga was disappointed that his shirt was turning brown and yet his friend had managed to keep his shirt white. He tried using a lot of water to rinse his shirt but the dirt marks always remained. He noticed that his detergent was different from the one Mwebesa was using.

# Task

As a chemistry learner,

1. explain the categories of the product the two boys were using (4 SCORES)

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1. help Makanga and Mwebesa understand how the product works(5 SCORES)

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1. advise the two boys on the challenges associated with the use of the product (3 SCORES)

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***SECTION B (ATTEMPT ALL)***

# Item 3.

At the onset of the COVID pandemic, the ministry of health advised citizens to use alcohol-based sanitizers as one of the standard procedures to protect themselves. Therefore, the members of a youth group in Mayuge decided to put up plant that makes ethanol from the surplus of sugarcane that cannot be used by the sugar processing plant.

A field officer from a prominent NGO is visiting to learn how the youths make use of the excess sugarcane with minimum effect on the environment.

# Task

Using the knowledge you have learnt in chemistry, write a short speech you will present on behalf of the youths.(15 SCORES)

# Item 4.

The government of Uganda, together with Total Energies and CNOOC have collaborated to construct a pipeline to the port of Tanga through which to transport crude oil from Hoima. The underground pipeline is expected to cross four major rivers and several wetlands in Uganda. Environmental advocates around the world are against the oil exploration and pipeline construction because they will affect many resources on which the communities rely.

A group of advocates has organized a rally with the theme **LET NATURE BE**. Officials from the central government, Total Energies, National Environment Management Authority (NEMA), school leaders and members of the public are expected to attend the event.

# Task

On behalf of the school leaders, write down a presentation you will make when called upon.(15 SCORES)

***END***