

Name:

Signature;... ..

SHILOH HIGH SCHOOL

END OF TERM I EXAMINATIONS 2024

Uganda Certificate of Education

S.4 CHEMISTRY PAPER ONE

2 HOURS.

INSTRUCTIONS

- This paper consists of two sections; A and B. It has six examination items.
- Section A has TWO Compulsory items
- Section B has two Parts I and II. Answer one item from each part.
- Answer four items in all.
- Answers to Section A must be written in the spaces provided while those of section B must be written on the answer sheets provided.
- Any additional items answered will not be scored.

1. In Buikwe, people make charcoal from burning wood. Emma has just migrated to Buikwe and wants to make charcoal just like the rest of his neighbours. He piled pieces of wood, introduced fire underneath and left them to burn overnight. In the morning he found a hip of ash with very little pieces of charcoal, not strong enough like what his neighbours make. As a chemistry learner;

(a) Point out the mistake Emma made when making the product

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(b) Help Emma understand the nature of the product and how it is made?

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(c) Advise Emma on the challenges associated with the long term practice of making this product

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(d) Can this product benefit the residents of Buikwe? If yes, how

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Item 2

Ouma wants to build a permanent house without affecting the environment, but lacks adequate information about the materials to use during the construction of his house.



As a student of Chemistry.

(a) Explain

(i) Categories of materials

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(ii) The suitability of the materials

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(b) Advise Ouma on the choice of materials

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(c) Can the materials used in construction of that house have impact to the environment? Take him through;

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SECTION B

Part 1

Answer *one* item from this part

Item 3

Many residents of Kaagati village are farmers and they own large pieces of land where they plant bananas and millet for home consumption and commercial purposes. Because of the seasonal changes, they have realized that a lot of bananas are ripening at the same time and therefore rotten before sell; which has led to a lot of losses. They have raised their complaint to their L.C1 who called for a village meeting.

The LC1 has trusted you as a resourceful person since you are one of the educated children of the village.



Task:

Prepare a presentation you will make in the meeting.

Item 4

Uganda Electricity Distribution Company Limited. UEDCL (*alias* Umeme) is licenced to distribute and supply electricity to customers. However many locals in some villages in Uganda are fed up with the high electricity bills and they say that electricity (Swahili- *Umeme*) is even inconsistent so some have opted for an alternative. They want to start advocating for a renewable fuel but the community is concerned about its environmental effects and how the environmental process will occur.

The Science club members in your school would like to know how the process of production will be carried out so that they sensitize the community members.



Task:

As a chemistry student, make a write up you will use during the presentation.

Part II

*Answer **one** item from this part.*

Item 5

Due to industrialization, other human activities and increasing population in some rural places, many natural resources have been destroyed. This has attracted officials from the National Environment Management Authority (NEMA). These officials are planning to create awareness to the people in your rural area through sensitization workshops organized in different district communities.



Task

As a chemistry student, prepare a short presentation you will deliver during the workshop upon invitation.

Item 6

Mrs Oketcho's kitchen has two small holes. Her friend advised her to fill those holes with sand so as to stop rats from hiding in. She therefore packed two kilograms of sand in a polythene bag and kept it near a tin which contained a kilogram of salt in the kitchen so as to work on the holes later. Unfortunately Her toddler found it and started mixing the sand with the salt in the tin.

Task

As a chemistry learner prepare a leaflet to guide Mrs Oketcho retrieve the salt from the mixture.

END