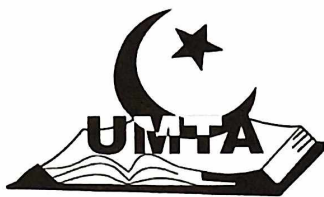


545/1
Chemistry
Paper 1
July - August 2024
2 Hours



UGANDA MUSLIM TEACHERS' ASSOCIATION
UMTA JOINT MOCK EXAMINATIONS-2024
UGANDA CERTIFICATE OF EDUCATION
Chemistry

Paper 1
2 hours

NAME.....

INDEX NO.....SIGN.....

INSTRUCTIONS TO CANDIDATES:

- *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 in Section **A** **must** be written in spaces provided while those of Section **B** **must** be written on the answer booklets(s) provided.*
- *Any additional item(s) answered will **not** be scored.*

SECTION A

Answer *all* the items from this section.

Item 1.

A man was looking at a label on the bottle of soda which showed ingredients such as citric acid, carbonated water, sugar and flavorings, he then wondered whether this was a trade mark of the company that produces soda. As a student of Chemistry;

Task:

(a) Help the man understand the type of product.

(b) Explain to the man the functions of the product.

(c) Explain to him the danger(s) of the product and the mitigation.

(d) Help him to evaluate the product.

Item 2.

A friend in S.1 found you reading about $^{23}_{11}\text{Na}$ and wanted to know the relevance and its application in the daily life. 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 and its mitigation.

SECTION B

Part I

Answer **one** item from this part

Item 3.

Agriculture is very difficult in a certain part of Uganda due to acidic soils because of Sulphur deposits beneath the soil layers. As a student with knowledge of chemistry you notice that there is need to convince the community members to abandon Agriculture but use the available mineral present in the soil to manufacture a very useful acid from it.



Task:

Explain to them how the acid can be obtained from this type of soil.

Item 4.

There is a salty lake in certain area and people refer to it as a miraculous Lake, for this reason so many people carry out traditional rituals on it.



Task:

As a student of Chemistry explain to them how to use its water to manufacture sodium hydroxide.

Part II

Answer one item from this part.

Item 5.

People in your area cut down trees for timber, charcoal and firewood production.

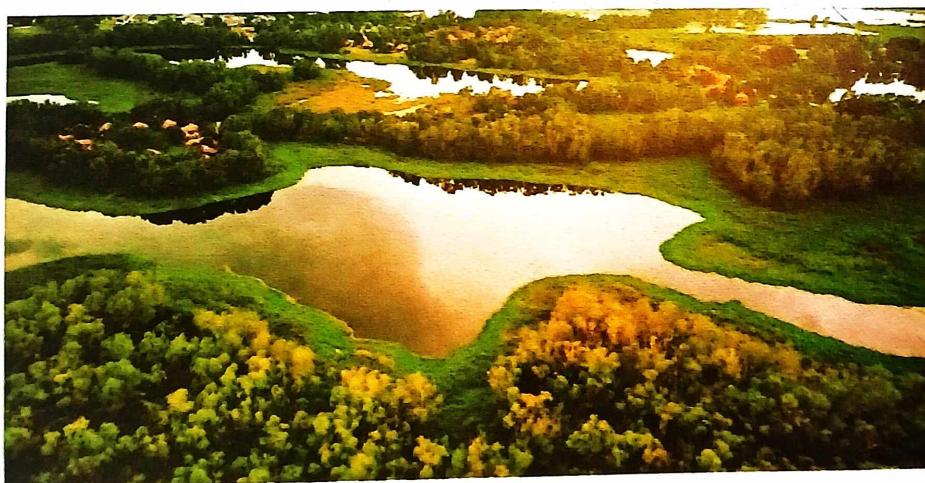


Task:

As a student of Chemistry explain to them the likely outcomes of these activities.

Item 6.

The local leaders in your area have okayed an investor to put up a sulphuric acid manufacturing plant in a swamp and the local community is opposed to this idea.



Task:

As a student of Chemistry help the investor and the local community come to consensus.

END