545/1

CHEMISTRY

Paper 1

2024

2 hours



THE STABLE

Unnase mock examinations

UGANDA CERTIFICATE OF EDUCATION CHEMISTRY PAPER 1

2 HOURS

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

Answer all the Items from this section.

ITEM 1

In a remote village with limited access to modern medical facilities, the nearest clinic is very far away, and transportation options are scarce. The villagers rely on each other for medical advice. Recently, bacterial infections have been increasing, but there is lack of awareness about proper medication to use.



This raises concerns about misuse and development of drug resistance.

As learner of chemistry, you have an opportunity to meet them in one of their village meetings;

Task:

(a) What are the possible types of drugs or medicines you can advis
them to treat the infections?

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(b) Carefully educate them on what the drugs exactly do.	
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(c) Advise them on the challenges associated with the drugs a	hae
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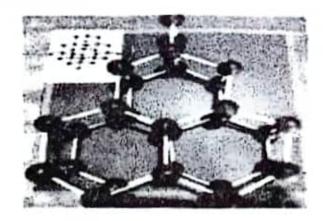
ITEM 2

A group of senior 3 students is considering a project to develop a device combining electronic performance, heat management, and durability. They have learned that graphite has unique properties

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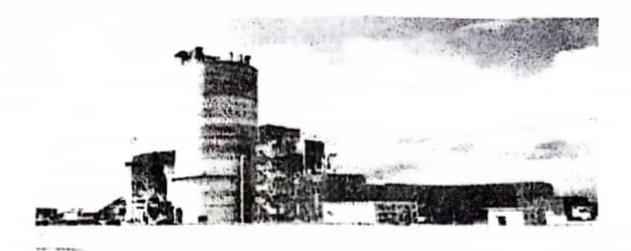
They would want to understand it better so that they can make highperformance electronic devices.

TASK:
(a) Write down what can help them to know its nature
••••••
(b) Point out how suitable it is to their project
•••••••••••••••••••••••••••••••••••••••
(c) Caution them on its environmental concerns

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TASK:

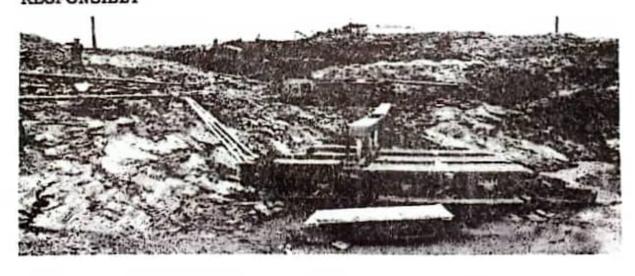
Write down all the necessary information that is needed by the local residents.

Part II

Answer one item from this part.

ITEM 5.

Uganda is blessed with rocks and minerals. However, their exploitation is causing more harm than good to the environment. The government wants to raise public awareness about this issue through school debating competitions on the theme; "EXPLOIT NATURAL RESOURCES RESPONSIBLY"



Task:

Write down the chemistry information which can be extended to the public in these debates.

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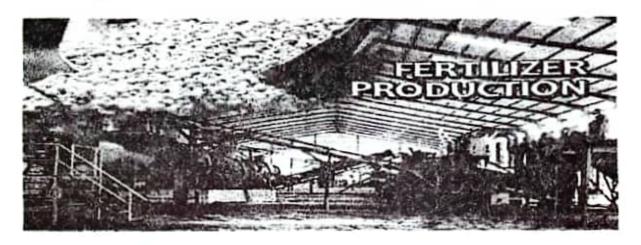
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SECTION B PART I Answer one item from this part.

ITEM 3

Farmers in a rural area petitioned the government to establish a local ammonium fertilizer manufacturing plant, which would provide a steady supply of affordable fertilizers. The government agreed to the proposal, but other residents are concerned about the environmental impact of the factory.



To prevent resistance and ensure the project's success, it is crucial to provide the residents with adequate information and about the production process and its environmental safeguards.

TASK:

Write down all the necessary information that is needed by the residents.

ITEM 4

Builders in Uganda have been experiencing collapsing structures due to poor cement quality. To improve their situation, they requested the government to build local cement manufacturing plant since there are required raw materials in Uganda and avoid relying on its importation. The idea is to produce cement of good quality at subsidized prices. Although the government approved the plans, local residents are concerned about manufacturing process and potential environmental impacts from the cement plant. To avoid resistance from the locals, it is essential to provide them with clear information about the production process, environmental safeguards and benefits.

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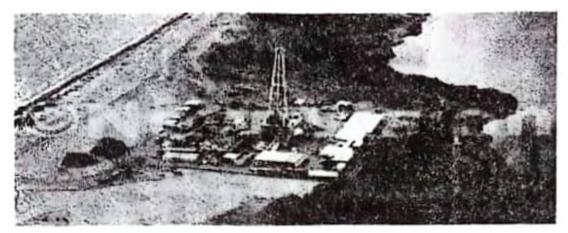
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ITEM 6.

The government plans to build a new oil refinery in the Kadam-Moroto

Basin to exploit the natural resource and reduce on fuel prices. However,
there is need to educate local residents about the natural resource, its
environmental impact and importance first.



The science club at your school has volunteered to do the senstisation during holidays.

TASK:

Write the chemistry you would need to pass over to the residents

END

