

Candidates'

Name:.....

Signature:.....

545/1

Chemistry

Paper 1

July 2024

2 hours



ACEITEKA JOINT MOCK EXAMINATIONS 2024

Uganda Certificate of Education

CHEMISTRY

Theory

Paper One

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES.

This paper consists of two sections section A and section B. it has six (6) examination items.

Section A has two (2) compulsory items

Section B has two parts, part I and II, attempt one item each part.

Attempt four items in all,

Answers to section A must be written in the spaces provided while those in section B must be written in the answer booklet(s) provided.

Any extra item attempted will not be scored.

SECTION A

Attempt all items in this section

ITEM 1:

On a certain introduction ceremony every one kept wondering and amazed by the aroma and taste of the food served, that it was very delicious.



The spokesperson kept repeating that “have you noticed the application of chemistry in the food industry”? So contact the service provider in case you need food on your function.

One of the ladies wants to understand the spokesperson properly.

Task

As a student of chemistry, basing on the spokesperson’s statement help him to advise the lady on:

- a) Suitability of the variety of ingredients used by the service provider.

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b) The possible problems associated with the ingredients used by the service provider.

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c) The choice of ingredients used by the service provider.

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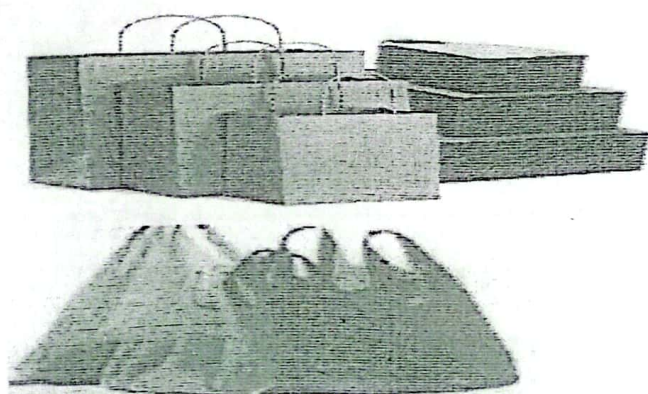
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ITEM 2:

A certain supermarket wants to use environmentally friendly and sustainable packing materials. The management is divided over use of polyethene and paper bags and have failed to agree.



They have decided to seek for advice from a person with good knowledge of chemistry.

TASKS

- a) Help them realize that the packing materials are of different types

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- b) Advise them on the suitability of the materials

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- c) Sensitise them on the precautions to be considered when selecting the packaging materials.

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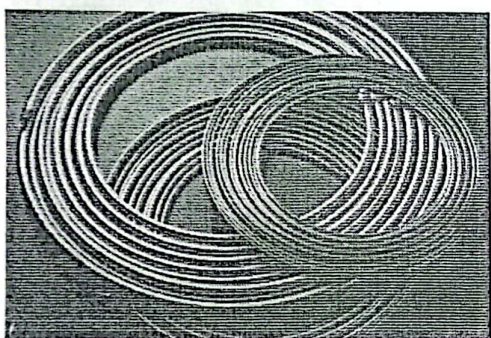
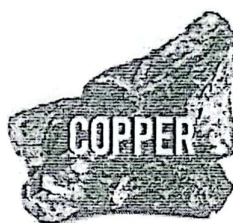
SECTION B

PART I

Attempt one item in this part.

ITEM3.

Significant copper reserves have been discovered in Kirembe in Kasese district government wants to set up a copper extraction and processing factory to tap into the opportunity. Nevertheless, the local members are ignorant of the procedures needed to extract the valuable material and its impact.



As a SENIOR FOUR candidate with the knowledge of chemistry, the village members have high expectations in you to provide the necessary information.

TASK

Create a sensitization message to the community.

ITEM 4

The number of water treatment plants has increased all of which use chlorine in treating water. To ensure that chlorine is readily available and at a cheaper cost, government wants to clear a local investor to set up a chlorine production plant.

However, the community is concerned about its environmental effects and how the production process will occur.

The class teacher has appointed you to sensitize the other learners about the plant.

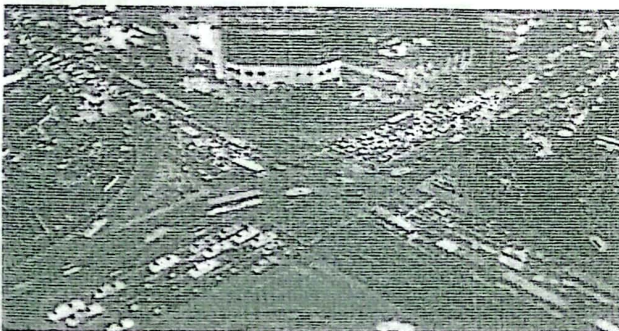
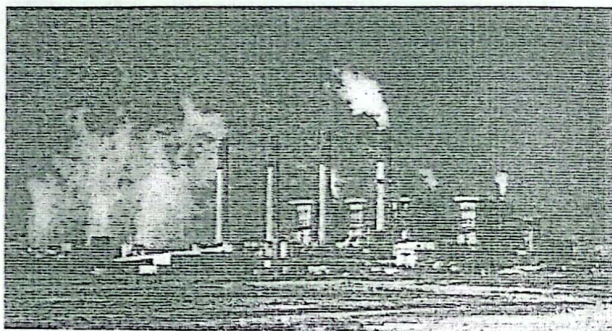
Task:

Make a write up to use upon meeting the classmates.

PART II

ITEM5.

The National Environmental Management Authority (NEMA) in Uganda is gearing up to sensitize citizens about the importance of conserving natural resources, particularly focusing on the impact of human activities on fossil fuels, in honor of World Environment Day.



As a science student in secondary school, you've been given the role of organizing a special assembly to educate the fellow students about the significance of fossil fuels and the importance of their conservation.

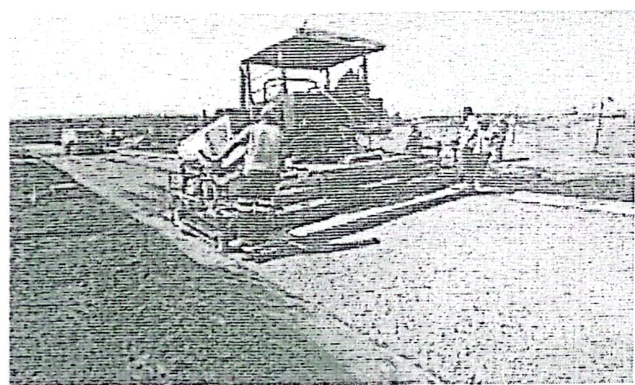
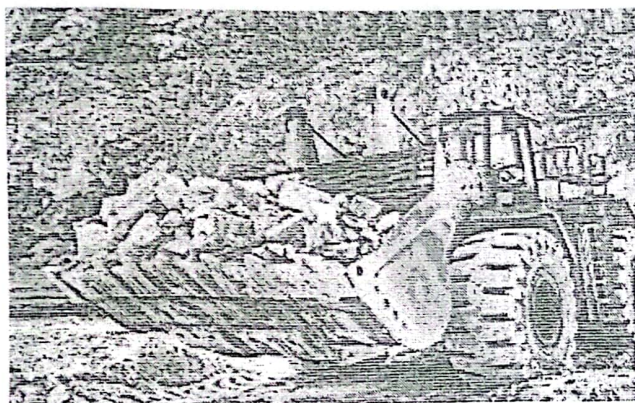
TASK

As a chemistry student, write a relevant speech you will use on the assembly.

ITEM 6

In Uganda, there are lots of valuable minerals and rocks, but their excessive mining is harming the environment. The government wants to raise awareness through media about this issue. Your school is one chosen to lead the sensitization campaign in your district with the theme:

"THE IMPACT OF MINERAL MINING."



As a chemistry student, you are chosen to talk about it on a radio show, using simple chemistry terms.

TASK.

write down the information which can be conveyed.

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