

NAME: .....

Index number: ..... Signature: .....

545/1  
Chemistry  
Paper 1  
July/August, 2024  
2 hours



**MASAKA DIOCESAN EXAMINATIONS BOARD**

Uganda Certificate of Education  
**JOINT MOCK EXAMINATIONS 2024**  
**CHEMISTRY**  
Paper 1  
2 hours

**Instructions to item takers**

This paper consists of four scenario items.

Attempt all the items in section A and section B.

Write your responses in section A in the spaces provided.

Write your responses in section B on separate answer sheet provided.

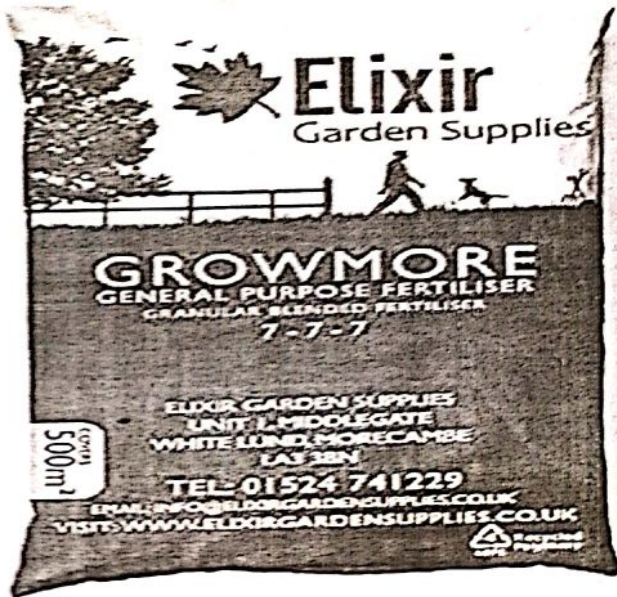
Begin writing responses in each item on a fresh page.

For official use only					
Item No.	1	2	3	4	Total score
Score					

**SECTION A: Attempt both items**

1. A farmer in a rural area hired a piece of land to grow maize for sale. The rainfall was very favorable but the yield was very poor because the soil was not fertile and he made losses.

He was advised to buy and use one of the ammonium fertilizers for the next season but he lacks knowledge about these fertilizers



H = 1      N = 14      O = 16      S = 32      Cl = 36

**Task**

As a learner of chemistry;

- a) Identify the products

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- b) Identify the function of the products and the impact.

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Handwriting practice lines consisting of multiple rows of dotted lines on a white background.

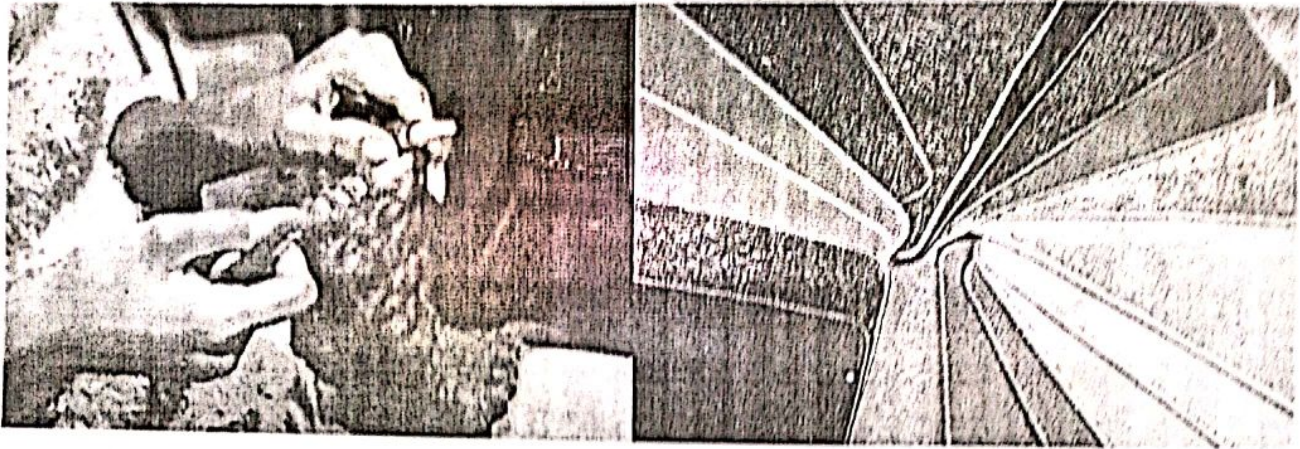
c) Help the farmer make a decision.

1

[illegible]



2. A group of women have been making cotton floor carpets to earn a living. However many customers complained that the carpets are easily decomposed by moisture and carpet beetles. One of the customers suggested that they use an alternative material but group members lack the knowledge about the material and its impact.



### Task

You have been contacted as learner with the knowledge of chemistry to help them:

- a) Identify the material.

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b) understand the impact of the material.

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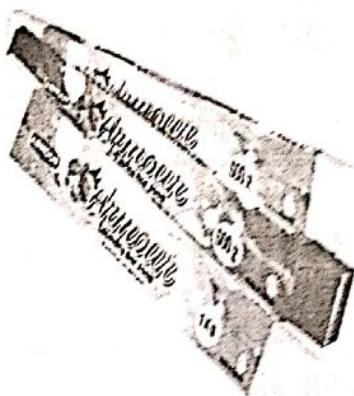
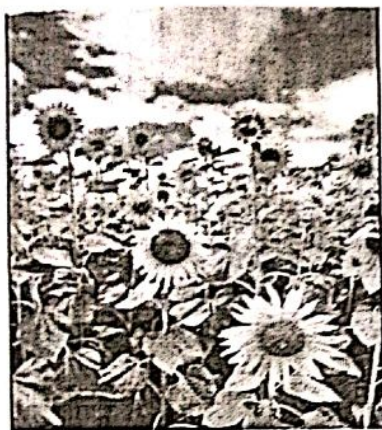


Handwriting practice lines consisting of 25 rows of dotted lines on a white background.

## SECTION B:

Attempt one items from each part in this section. Part 1

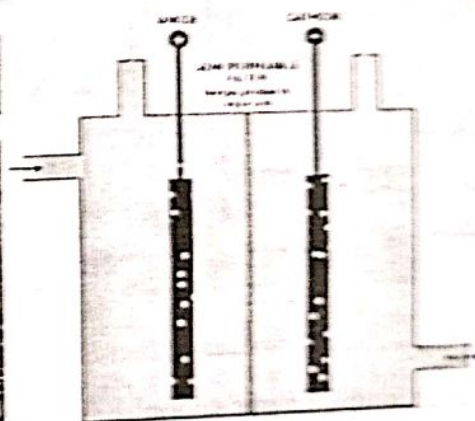
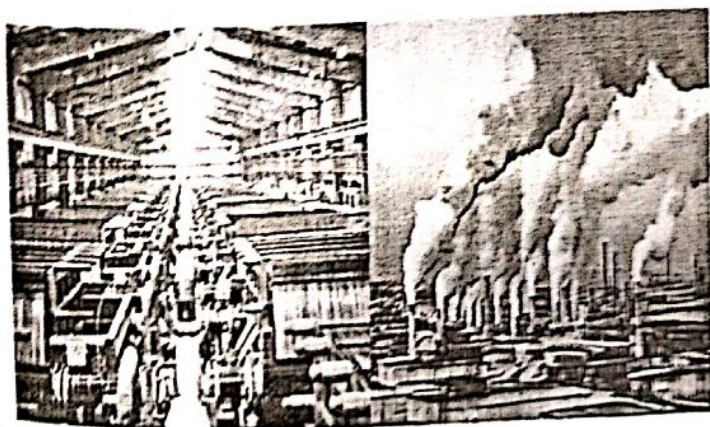
3. Many farmers in Eastern Uganda grew a lot of sunflower expecting good market outside Uganda. Unfortunately, there is no market. After getting government SACCO money, a group of some farmers want to buy the sunflower invest into soap manufacture but they lack the knowledge of the process and its effects



### TASK

Help the famers achieve their objective.

4. There is high demand of chlorine in Uganda for treating water due to increased levels of water pollution. An investor wants to tap into the opportunity to manufacture chlorine at Kabale near Lake Bunyonyi. However, the residents seem not to understand how the process will occur plus its consequences and are resisting the project.



As a senior four candidate with the knowledge of chemistry, you are required to create awareness to the members and provide the necessary information.

### Task

Write a presentation you will use upon meeting them.



## Part II

5. It has been observed that there are more people suffering from asthma and other respiratory diseases in densely populated towns and cities due to pollution by a number of activities but the community does not know what to do.



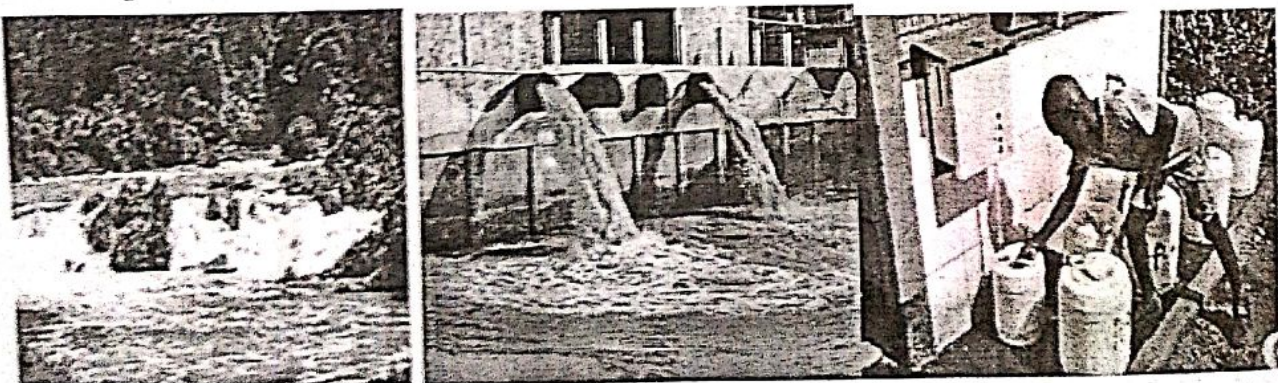
NEMA has organized a workshop on the theme “improving the quality of urban environment is every body’s responsibility”.

Your school has been invited to make a presentation in the workshop and you have been chosen as the presenter.

### Task:

Prepare a message to be delivered.

6. Fresh water bodies like lakes and rivers have been heavily encroached on as a result of rapid urbanization. On World Environment Day, the Ugandan government, particularly the National Environmental Management Authority (NEMA), wishes to raise public awareness among the citizens



The science club at your school has selected you to give a presentation on the theme “fresh water is a basic necessity”.

### Task

Write the presentation you can use.

**END**