

Candidate's Name.....

Signature.....Stream.....

545/1

CHEMISTRY

Paper 1

2 hours

BUGANDA EXAMINATIONS COUNCIL MOCKS

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.

Please Turn Over

SECTION A

Respond to all items from this section.

Item 1

Aishawho operates a food restaurant near your school often complains of her foods getting spoilt easily. She also frequently registers a low-turn up of customers since, many of them complain of food not being delicious and not appealing.

She has been advised by her friend to use products that many be local or synthetic to improve on her foods and win back her customers. She needs further guidance and thus, has approached you.

Task

As a Chemistry learner;

(a) identify the category of products that Sarah can be use.

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(b) explain to her the functions of the products.

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(c) discuss why excessive use of the products is bad.

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- (d) advise her on which product is better to use; artificial product or natural product.

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Item 2.

Juma wants to construct a good and a strong wall for his house. His friend suggested to him to also use wood or iron bars in addition to the other materials he has. As a result, he has approached you to discuss the suggested additional alternative materials for house construction without affecting the environment.

Task

As a learner of Chemistry:

- (a) explain to Sarah;
- (i) the possible categories of the additional alternative materials she can use.

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(ii) how suitable the alternative additional materials are.

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(b) state for what other purpose can the alternative materials be used for?

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(c) advise Juma on the choice of the of the alternative materials.

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SECTION B

Part I

Respond to **one** item from this part.

Item 3.

In Uganda, ammonium nitrate is primarily used in agriculture as a fertilizer and for explosives in the mining sector. To reduce reliance on its importation, government has teamed up with some foreign investors to set up an ammonium nitrate production plant in a certain area.

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Your Chemistry teacher has been asked to carry out the sensitisation and she given you an assignment to prepare for her a write-up for sensitisation.

Task

As a Chemistry learner, make a write-up for the teacher.

Part II

Respond to **one** item from this part.

Item 5.

Peter's pottery in a rural Ugandan village relies on coal as a fuel source due to the lack of electricity and enough firewood. However, the community is concerned about the potential side effects of coal use. And that these sides effects may have no mitigations.

The community also wants to know more about coal and it's any other uses.

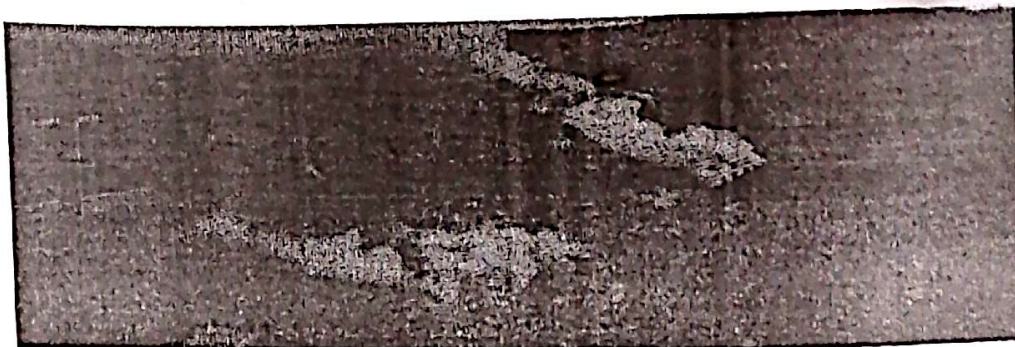
The area LC 1 chairperson has organised a sensitisation meeting in the village and you have been chosen as a guest speaker to address the concerns of the community.

Task

As a Chemistry learner, prepare a write-up of what you will deliver during the meeting.

Item 6

In many parts of Kampala city, swampy areas have been reclaimed by the locals for settlement and other human activities. The rocky areas have not also been spared either.



However, the residents of area need to be sensitised about the industrial process and the associated impact.

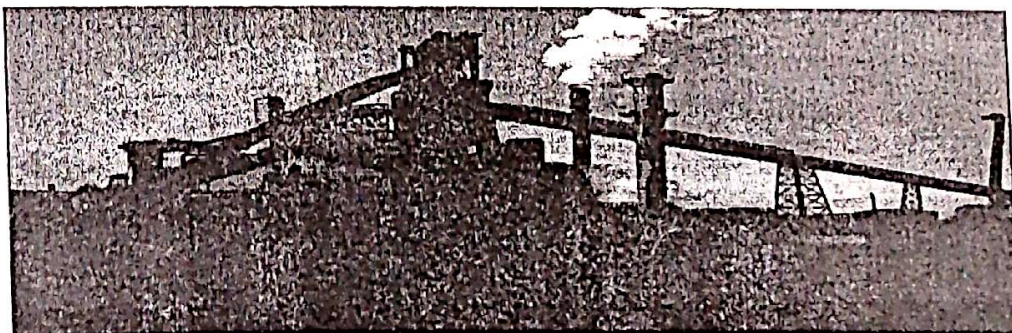
You have been chosen as lead speaker for the team to sensitise the residents.

Task

As a learner of Chemistry, prepare a write-up that you will use to sensitise the residents.

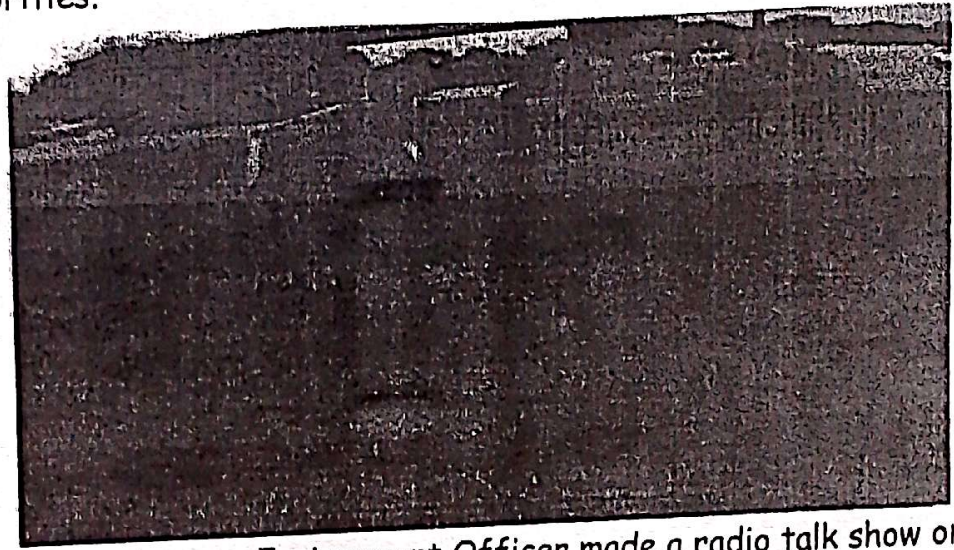
Item 6

Due to vast iron ore deposits in Muko, Kabale district, government has cleared one of the foreign investors to set up an iron production plant in the area. However, the community is concerned about its negative impact. They are also wondering if there any other social benefits associated with the plant apart from job opportunities.



The law also requires that the locals should be sensitised about the whole process.

These happenings have attracted the attention of the concerned authorities.



As a result, the area Environment Officer made a radio talk show on sustainable use of natural resources on one of the radio stations in city. Unfortunately, Mary a resident of the area only heard the concluding statement, **"From the presentation, I kindly request everybody to use our natural resources sustainably"**.

Mary is now confused and wants to understand the detail of the talk show. She has approached you for help.

Task

As a Chemistry student, prepare a short presentation you will share with Mary.

End