

Candidate's Name.....

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

545/1

CHEMISTRY

Paper 1

2024

2 hours

KANUNGU DISTRICT JOINT MOCK EXAMINATIONS 2024

Uganda Certificate of Education

CHEMISTRY

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES:

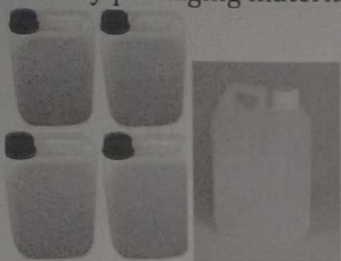
- This paper consists of **two** sections; **A** and **B**. It has **six** examination items.
- Section **A** has **two compulsory** items.
- Section **B** has **two Parts; I and II**. Answer **one** item from **each** part.
- Answer four items in all.
- Answers to Section **A** **must** be written in 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.

SECTION A

Respond to **ALL** items from this section.

Item 1.

The coordinators of parish development model in Kanungu district recently cleared a group of female youths in the district to setup a liquid soap making project. However, the coordinators have cautioned the youths to use sustainable and environmentally friendly packaging materials of the product.



As a result, the youths have organized a meeting to discuss possible alternative packaging materials.

Task;

As a chemistry learner, write a short message you would deliver to the youths upon invitation. In your message:

- (a) Explain
(i) categories of materials.

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- (ii) the suitability of the materials.

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- (b) Advise the youths on the choice of the materials.

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Item 2.

James, a S.4 student at Kafu secondary school always visits his aunt, whenever he falls sick. He thinks and trusts his aunt's skill as a traditional healer.

One day, on his way from school with his brother, he slipped and fell down and felt pain on his head and also got some small cuts on his arm but had no bruises on his head.

His brother rushed him to one of the local health Centre, instead of taking her to his aunt's home. At the health Centre, he was given aspirin tablets.

To his surprise, after a rest he felt relieved from the pain. He has approached you to help him understand why the pain disappeared.

Task;

As a chemistry learner, write a message you will share with James. In your message, include:

- (a) The category of the product.

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- (b) The function of the product.

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(c) Advice to James on the challenges associated with the use of the products.

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SECTION B

Part I

Respond to ONE item from this part.

Item 3.

Many people in villages around Kanungu district make a living by manufacturing waragi (ethanol) from locally available raw materials. However, the business is associated with challenges. The district LC5 chairperson wants to sensitize the community about the larger scale production process and its impacts.



The chairperson has contacted you as a student with the knowledge of chemistry in your village to provide relevant information.

Task;

Make a write up to use upon meeting the community people.

Item 4.

Kihembe Sub County in Kanungu District Uganda is rich in iron deposits. The government is therefore planning to set up an iron and steel rolling factory to make the best use of the iron deposits in this village.

The local residents are however, protesting plan to establish the plant in their area, claiming that the government is going to steal their valuable land and there is no importance of a plant to them.



The locals also do not know how the process of extraction of iron will be done.

A radio talk show has been organised on one of the local radio stations by the District Development Officer (DDO) and the Local council representative to sensitise the locals on the issues at hand.

TASK

As a learner of Chemistry, prepare a presentation you would make upon invitation.

Part II

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

Item 5.

Kihihi town is an area developing at a fast pace. There are many trading centres that have been established in the different villages. Many swamps and forests have been reclaimed and filled with new buildings. Sand mining is the order of the day. Recently both the vegetation and wells have started drying up, and yet the little water that is available is not fresh. The few residents in the different villages that practice crop husbandry also say that seasons have changed and this has caused famine in some parts of the town. All these happenings have left many of the council officials wondering.



A sensitization workshop is to be organised by the Chairperson Local Council V through the different village environmental management committees.

Task;

As a learner of chemistry, present the message you will share when called upon.

Item 6.

As a result of increasing population in Butogota subcounty, many of the natural forests and swamps have been destroyed for create space for construction and provide charcoal among others. This has attracted the attention of the government officials in the district.



As a result, the government through the National Environment Management Authority (NEMA) is planning to create awareness to the people of Butogota Sub County through sensitization workshops organized in the different villages in the sub county.

Task

As a Chemistry learner, prepare a short presentation that you will deliver during the workshop when invited.

END