

Candidates' Name:

Signature:

Random No.					Personal No.		

(Do not write your school / Center name or Number anywhere on this booklet)

545/1

CHEMISTRY

Paper 1

July / Aug 2024

2 ½ HOURS



KAMTEC EXAMINATIONS BOARD

Uganda Certificate Of Education

CHEMISTRY

Paper 1

TIME: 2 Hours 30 Minutes

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**.
- Respond to 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.

FOR EXAMINER'S USE ONLY			
SECTION	ITEM	SCORE(S)	EXAMINER'S SIGNATURE
A	1		
	2		
B	3		
	4		
	5		
	6		
TOTAL			

SECTION A

*Answer **all** the items in this section in the spaces provided.*

Item 1.

In Busamaga ward, Mbale City, modern buildings have been completed but several huge cracks have developed and the buildings are about to collapse. Residents are planning to arrest and beat the construction workers, accusing them of using sub-standard materials. The Chairperson Local Council 1 together with the community development officer have organised a community meeting to talk to the residents and discuss the other possible alternatives to rebuild the society's houses without affecting the environment.

Task:

Use your chemistry knowledge to:

(a) Explain

(i) The category of the material

(ii) The suitability of the materials

(b) Advise residents and the concerned authorities on the choice of the materials.

Item 2

Timothy owns a laundry shop in Busia border town. Being a new person in the area, he sent one of the water sellers to collect for him water for use. While cleaning some of his client's white clothes, using the available detergent, she realised that some brown spots remained on them yet he had rinsed it severally. This has left Timothy wondering and has approached you for some pieces of advice.

Task:

As chemistry learner;

(a) Explain to Timothy the mistake he made when choosing the product.

(b) Guide Timothy to understand how the product works.

(c) Advise Timothy on the challenges associated with the long-term use of the product.

SECTION B

PART I

Respond to one item from this part.

Item 3.

Soap is the chief material commonly used to facilitate washing. Of recent, there has been countrywide outcries to the government about the high costs of soap for domestic use. This is partly because of the few industries producing soap in the country. To ensure efficient supply of soap, recently the government secured some land for the local investors to set up another soap production plant in one of the villages in Tororo District. However, the local people are concerned about its environmental impact and their valuable land that is about to be taken by the investor. The community members are also wondering how the process of soap production will take place. As a result, the District Chairperson has called for a meeting with the investor and the Local Representatives.



Task

As a chemistry learner, make a write up you will use during the presentation upon invitation.

Item 4.

Recently, there has been country wide complaints of the high fuel costs. These include the high costs of petrol, diesel, paraffin among others. As a result, the government has agreed with some foreign investors to set up another oil refinery plant in Kyakayege village, Sembabule District to tap the oil deposits in the area. The local residents are however, protesting the establishment of the plant in their area, claiming that the government is going to steal their land and there is no importance of a plant to them. The locals also do not know how the refinery process 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.

In Hima village, Kasese District, most people survive on charcoal burning, animal husbandry, crop husbandry, stone quarrying among others. Some have small mills to process rice, maize, millet among others. Currently the crops are drying up, animals are dying, and wells are drying up.

Yet the little water that is available is also not fresh. These happenings have left many of the villages wondering why.

A sensitisation workshop is to be organised to explain the existing situation in the village. The theme for the workshop is “**BECOME PART OF YOUR ENVIROMENT**”



Task:

As a learner of chemistry, prepare a message you will deliver during the meeting upon invitation.

Item 6.

River Kafu is located in western Uganda. People living around this river survive on sand mining, crop husbandry, animal husbandry and brick making. Of recent, the water levels have seriously reduced and sadly, even the little water available is polluted. The fish is dying. These existing situations have left the local authorities very worried. The town mayor has called for a workshop to sensitize the local community on the existing situations around the river. The theme of the workshop is “**SAVE RIVER KAFU**”

**Task**

As a Chemistry student, write a message you will deliver if you were invited for the workshop.

END