

NAME: \_\_\_\_\_ STREAM: \_\_\_\_\_

545/1

CHEMISTRY

(Theory)

2 hours

**UGANDA CERTIFICATE OF EDUCATION  
S3 BOT TERM III EXAMS 2024  
CHEMISTRY  
PAPER 1  
2 HOURS**

**Instructions:**

- 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 spaces provided while those of section B must be written on answer sheets provided.
- Any additional items answered will not be scored.

**FOR EXERMINER'S WORK ONLY**

SECTION	ITEM	SCORES	EXERMINER'S INTITIALS
<b>A</b>	<b>1</b>		
	<b>2</b>		
<b>B</b>	<b>3</b>		
	<b>4</b>		
	<b>5</b>		
	<b>6</b>		
<b>TOTAL</b>			

**TURN OVER**

## SECTION A:

Answer all the items from this section

### Item1.

Joan and Priscilla went to wash their clothes around the nearby well surrounded by racks. Joan used detergent T and Priscilla used detergent Q two days later, Joan realized that her white clothes had some dirty marks yet she rinsed them with water several times. Priscilla, on the other hand never had such complaints. Joan is now frustrated and cannot understand what went wrong. As a result, both Joan and Priscilla have approached you to help them understand their situation.



### Task;

As a chemistry learner, write a message you will share with the two ladies, in your message:

(a) Explain categories of products **T** and **Q** used by the two ladies **(02 scores)**

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(b) Help Joan to understand how the product works. **(02 scores)**

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c) Advice on the challenges associated with long term use of the product. (04scores)

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**Item 2**

A business lady owns a flower farm in ADUK village in Uganda. She is in the process of searching for quality plastic boots that are environmentally friendly. There are various boots of different quality and composition in the nearby shops. However, she does not know the quality of the boots to purchase.



However, the business lady knows that quality boots depend on the nature of the material and here she comes for some advice from you.

**Tasks;**

As a chemistry student,

(a) Explain

(i) Category of the product.

(02 scores)

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(ii) The suitability of the product.

(02 scores)

(iii) Advise her on the choice of the product she should go for (04 scores)

### SECTION B (Part I)

Answer one item from this part.

#### ITEM 3

Recently, there has been a countrywide complaint to the government of the high costs of soap for use. This is partly because of the few industries producing soap. In order to make soap readily available and at a cheaper cost, the government recently cleared one of the local investors to set up another soap production plant in one of the villages in Tororo District. However, the community is 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 be carried out.



As a result, the chairperson science club in your school has chosen you to sensitize the members of the club on the situation. (09 scores)



#### Item 4

Gomba is one of the leading cattle rearing districts in Uganda. The area Member of Parliament has noticed over-dependence on fire-wood and charcoal as a source of fuel leading to increased deforestation with adverse climatic change. The area MP is suggesting for a shift in the source of fuel to bio-gas but many members seem ignorant about it, worried of its environmental impacts and its importance to them.



The MP is organizing a sensitization meeting with locals in which you're going to be part of the sensitization team.

Task:

As a chemistry learner, prepare a presentation that is going to be used upon the meeting.

**(09 scores)**



**SECTION B (Part II)**  
**Answer one item from this part.**

**Item 5**

In Tororo, many swamps and forests have been reclaimed and stone quarrying is the order of the day. Recently both the vegetation and wells have started drying up, 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 district.



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

**Task;**

As learner of Chemistry, present the message you will share when called upon.  
**(08 scores)**

**ITEM 6**

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



As a result, the government through the National Environment Management Authority (NEMA) is planning to create awareness to the people of Wakiso District through sensitization workshops in the different villages in the district.

**Task;**

As a Chemistry learner, prepare a short presentation that you will deliver during the workshop when invited.  
**(08 scores)**

[illegible]

[illegible]



[illegible]

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**-END-Blessings!**