Candidate's Name: .....

Signature: .....

Index NO								

545/1

CHEMISTRY

Paper 1

July - August 2026

2 hours

KAMPALA INTEGRATED SECONDARY SCHOOLS EXAMINATIONS BUREAU

KAMSSA

KAMSSA JOINT MOCK EXAMINATIONS

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.*
- *Use where necessary; C=12, O=16*
- *Any additional item(s) answered will not be scored.*

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SECTION A

Respond to all the items in this section in the spaces provided

ITEM 1

A group of students at a school in Gulu use borehole water for washing clothes. After using a certain cleaning product, they noticed brown stains on their white shirts as shown below.



They were told that the stains were caused by the cleaning product and have asked you to explain how the product works and why it caused the staining.

Task

As a chemistry learner,

(a) Help the group to;

(i) Know the category of preferred product and how it works.

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For Scorer's Use Only	
Basis Code	T
Score	

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(ii) Understand the side effect associated with the use of the product.

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For Scorer's Use Only	
Basis Code	D
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(b) Guide the group on the better products to use basing on similarities and differences.

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For Scorer's Use Only	
Basis Code	E
Score	

ITEM 2

A group of S.2 learners came across data on melting points of elements whose identities they forgot to capture. They brought it to S.4 learners to help them analyze and interpret the data for them.

Element	*A*	*B*	*C*	*D*	*E*	*F*	*G*
Atomic number	*11*	*12*	*13*	*14*	*15*	*16*	*17*
Melting point(^0C)	*98*	*650*	*660*	*1410*	*44*	*119*	*-101*

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Task:

As a chemistry learner,

(a) Explain;

(i) The nature of the elements and identify them.

For Scorer's Use Only	
Basis Code	C
Score	

(ii) The variation of melting points from Element A to G.

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(iii) How element G is useful to a man?

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For Scorer's Use Only	
Basis Code	X
Score	

b) Write down one impact of having element A poorly disposed to the environment.

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For Scorer's Use Only	
Basis Code	I
Score	

SECTION B

Part I

Attempt any one item from this part

ITEM 3

The increasing construction of modern, durable buildings has led to a high demand for iron bars. Following the discovery of haematite (Fe_2O_3) deposits, plans are underway to establish an iron-processing plant to utilize the available mineral resources. Local residents are expected to participate in the production process, but they have limited knowledge of iron production and are uncertain about its environmental impacts and the benefits it may bring to the community.

Task

As a learner of chemistry, prepare a write up you will use to sensitize the residents.

ITEM 4

The increasing demand for ethanol used in making alcohol-based sanitizers has led to plans to establish new ethanol production plants in areas where sugarcane is cultivated. Although the

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plants may create employment opportunities, residents are concerned about possible environmental impacts and want to understand the ethanol production process.

Task

As a chemistry learner, make a write up to guide the residents.

SECTION B

Part II

Attempt any one item from this part

ITEM 5

Increasing air pollution in the area has become a concern, with reports of rising health problems among the community as shown below.



The local environmental club is planning to organize sensitization workshops to create awareness about the issue and educate people on possible solutions.

Task

As a chemistry learner, prepare a short presentation that you will deliver during the workshop.

ITEM 6

Rapid urbanization and industrialization in a city have polluted nearby water bodies as shown below, threatening the water supply and public health.



Sensitization workshops have been organized in the community, and your school has been invited, with you selected to represent it.

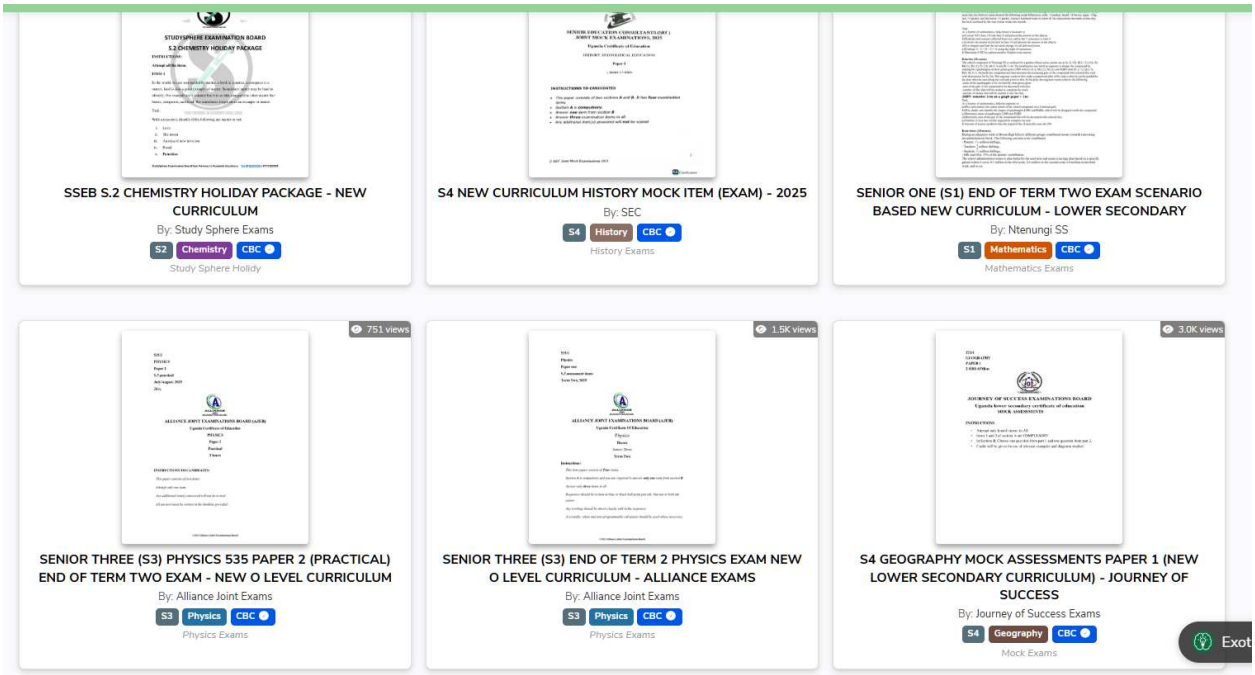
Task

As a learner of chemistry, make a write up of the message you will deliver during the workshop.

END

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