

Name.....

Signature.....Candidates Personal Number.....

545/1

CHEMISTRY.

Paper 1.

Aug /2025.

2 hours

CHEMISTRY DEPARTMENT

New Lower Secondary Chemistry Examination

Uganda Certificate of Education

Internal mock set 5

Paper 1

2 hours

INSTRUCTIONS:

*This paper consists of **two** sections **A** and **B**. It has **six** examination items.*

*Section **A** has **one** 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 provided answer sheets.*

*Any additional item(s) answered will **not** be scored*

SECTION A

Answer all items in this section in the spaces provided.

Item 1

Fahiimah lives in an area which uses water from a well that originates from beds of nearby gypsum rock. When she washed her white cotton blouse using cleaning product **R** on one day, she noticed a chalky residue clinging on the fabric upon rinsing and blouse felt rough and stiff after drying. On another day, she used product **Q** and observed that blouse had no residue upon rinsing. When dried, it felt smooth and softer when touched

Task. As a chemistry student,

- (a) Categorize the cleaning products used.

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- (b) Explain how product R works.

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- (c) advise her on that challenges associated with use of any of the cleaning product.

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(d) evaluate the cleaning products used.

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Item 2

Umar is planning to build his residential home and wants to ensure the construction of highest quality. He is overwhelmed by several construction materials available on market among which are **steel, wood, plastics** and **clay bricks**. He is particularly concerned about choosing materials that are of good quality and needs to understand their impact so as to ensure environmental responsibility. He has invited you for guidance.

Task: As a Chemistry student,

(a) explain to him the **type** of materials to use.

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(b) guide him on suitability of any material

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(c) advise him the environmental impact associated with use of any material .

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SECTION B

Part I (Attempt one item from this part)

Item 3. Due to high demand of iron for production of steel, the government has contracted an investor to build an iron extraction plant in Mukono district. However ,the community is strongly worried about its impact and is seeking assurance on how they will benefit from it's operations. The Uganda Investments Authority, UIA has organized a workshop to educate the public. You have been invited to attend.

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Task. As a chemistry student, make a write up you will use during the presentation.

Item 4.

The government has cleared an investor to establish a sulphuric acid manufacturing plant in Namanve Industrial Park . This move is intended to maintain continuous supply of the acid which is an essential raw material for manufacturing soapless detergents, dyes , paints, ammonium sulphate fertilizer etc.,.However, the local residents are concerned about the potential for environmental damage from manufacturing process and are questioning how they will directly benefit from the plant's operations. The official from Uganda Investments Authority (UIA) have organized workshops to address the locals . You have been invited to address the locals .



Task. Write a write up presentation you will use during the presentation.

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Part II.

(Attempt one item from this part.)

Item 5. The ministry of urban development, environmental officials and all leaders of cities and municipal councils in Uganda have noted with concern that the quality of air has deteriorated resulting from industrial set up. This has prompted a coordinated effort to develop and implement a joint action plan aimed at educating the public and mitigating these effects. . They have organized radio talk shows to create awareness to the public. You have been invited to address the public.



Task.

As a chemistry prepare a short presentation you will deliver in the radio talk show.

Item 6

Many metamorphic and sedimentary rocky areas in different regions of Uganda have been over exploited by locals. This has raised significant alarm among environmental officials who are worried about the potential consequences of these actions. The government has organized workshops to raise awareness amongst the locals living in such areas about their actions. . You have been invited to attend one of the workshops and address the locals in **any** of the rocky areas.

Task.

As a chemistry student, prepare a short message you will use to deliver in the workshop.

End.

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