

Candidate's Name:

Signature: Index No.:/

545/1

CHEMISTRY

Paper 1

2 Hours



ALLIANCE EXAMINATIONS BOARD -2025

Uganda Certificate of Education

CHEMISTRY

Paper 1

Time: 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 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

Answer *all* the items in this section

Item 1

On one Monday evening, Mr. Julius was feeling some joint pains and body weakness. When he went for analysis, it was found that he was infected with malaria. The cost of the drugs was too high and he decided to return home and take some paracetamol which he had got recently for his daughter. For the mean time, he felt some some relief but After two hours of resting, he realized that the pain was just increasing and he has contact you for some assistance and guidance.

Task: As a chemistry learner,

- a) Point out the problem Mr. Fred made when choosing the product.

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- b) Guide Mr. Fred on how the product works.

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- c) Advice he on the challenges associated with the long-term.

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d) Help Mr. Fred evaluate the product.

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Item 2

Kadenghe is a small village where majority of its farmers deal in farming to earn a living and get some food. Of recent, the farmers in the village made some losses and they were advised to start applying some nitrogen fertilizers to the soil before cultivation. You have been sent to the agricultural shop and to purchase the best fertilizer which can provide the best yields in the fourth coming season. Some of the samples that are in market are; ammonium sulphate $((\text{NH}_4)_2\text{SO}_4)$, ammonium phosphate $((\text{NH}_4)_3\text{PO}_4)$, urea $(\text{CO}(\text{NH}_2)_2)$.

Use (N=14, P=31 O=16, H=1, C=12, S=32) where necessary



Task,

(a) Explain

i. Category of the product.

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ii. The suitability of the product.

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(b) Advise him on the choice of the product he should go for.

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(c) Is the product environmental friendly?

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Section B

Part I

Answer *one* item from this part

Item 3

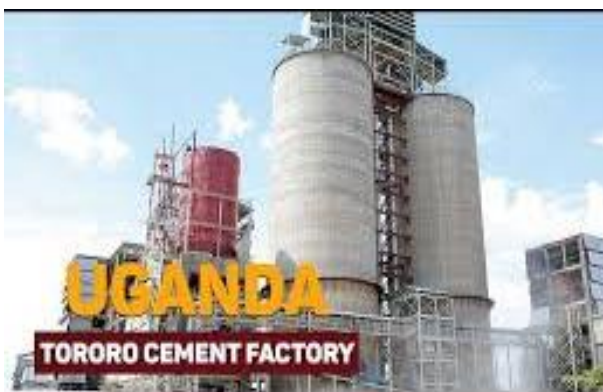
Mirembe steel mills deals in producing deferent steel beams used to strengthen bridges. The company manager realized that the iron that they have been using to make steel alloys is not pure and he decided to set up his own iron extraction plant to ensure quality products and lower the production costs of making steel. He has appointed a team of engineers to plan and present the project to the Board for approval. You have been called upon to be part of the team of engineers.



Task: Prepare a presentation you will present to your team members and to the board of governors during the meeting.

Item 4

Mr. Magumba has been an engineer in the cement manufacturing company. Of recent, he decided to retire from his job and start up his own projects. However, he is planning to set up a mini cement factory in his village such that he supplies the community with good quality cement at a low cost and also earn some money to run him through his retirement. However the community leaders have opposed his ideas claiming that the project will have more harm than good to the community and it will cause more Environmental effects yet some community members are questioning whether it is going to be beneficial to them and their children. As part of the community, Mr. Magumba has contacted you to support him on what he should deliver to the community in the next meeting.



Task: Prepare a report that will guide him on his presentation.

Part ii

Answer *one* item from this part

Item 5

Kitumba is a hilly place in Kabale, western Uganda. The youth in Kitumba have for a long time been laying bricks and cutting down trees to burn the clay bricks and sell some as firewood in Mwanjari market. The children in Kitumba are always fishing using small nets and sometimes some poison to maximize more fish from fishing in the small ponds. These human activities have resulted into shortage of fresh water and the agricultural produces yields have lowered with death of livestock.



The community leaders have organized a meeting to sensitize the other community members under the theme “MY NEW KITUMBA” and you have been invited.

Task: As a chemistry student, make a write up you will display upon invitation.

Item 6

Following the recent discovery of some of the natural resources in the Albertine region, many people have started encroaching onto the land of this region by clearing trees to create space for settlement and charcoal burning and also the water of Lake Albert is exponentially deteriorating. This has attracted the officials of Hoima district environment management authority. The officials want to sensitize people in the Albertine region about environment conservation through a workshop.



Task: As a chemistry learner, prepare a short message you will deliver upon invitation to the workshop.

END

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