Candidate's Name:
Signature:
545/1
CHEMISTRY
Paper 1
MAY2024
2 hours

CHEMISTRY DEPARTMENT EXAMINATIONS BOARD

Uganda Certificate of Education

CHEMISTRY

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES:

- This paper has six examination items which are divided into two sections; A and B.
- > Section A has two compulsory items. Answers to section A must be written in the spaces provided.
- > Section B has two parts; I and II. Answer one item from each part.
- Answers to section B must be written in the answer booklet(s) provided.
- Answer four items in all.
- ➤ Any additional item answered will not be scored.

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1	2	3	4	5	6	

SECTION A

Attempt all items from this section in the spaces provided.

Item1.

dirty are n a)	dents of Kibiiro wash their clothes using ordinary bar soaps however complain of stains that are often left on their clothes whenever they use borehole water which tot seen when waters from Kigorobya 7mile village away from kibiro are used. What leads to the formation of the stains on their clothes whenever they use borehole water?
••••	
b)	What measures can be applied to stop them from moving long distance for other water sources?
••••	
••••	
••••	
c)	How is soap able to remove stains off their clothing on using waters from Kigorobya?
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••••	
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Item2.
In one of the sessions of the 9th parliament of the Republic of Uganda, a motion was
raised by members and the bill passed to ban the manufacture, importation and use of
plastic bags in Uganda due to their diverse effects to the environment. However, since
2010, this has never been implemented due to some stakeholders who believe polythene
bags are more important.
a) Identify the effects of polythene to the environment that had led to its banning.
b) Why are plastics widely used in our societies in Uganda?
o) will all plastes watery used in our societies in Egandu.
c) Identity the likely benefits of plastic that delayed the implementation of the bill.

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SECTION B

Part I

Attempt one item from this part in the answer booklet(s) provided.

Item 3.

Kibiro an area on Lake Albert in Hoima district, has for long been known for local salt mining for domestic use in cooking due abundant mineral in the waters. As a value addition strategy, many residents now wish to use their salt for soap making however have no idea of the other raw materials to use, the process of production, the side effects and their mitigation, and many other uses of the product apart from cleaning of their clothing.

Task.

As a student of Chemistry, make a write up addressing their queries to enable the residents achieve their target.

Item 4.

The medical experts from Buliisa Kigoya Health Centre IV, have always raised their concern on how the lack of enough oxygen in the facility is one fact why many patients in critical condition end up dying.

Task.

You have been tasked by your teacher, to organize an elaborate report on how oxygen may be produced on large scale for use at the Hospital. Your report should include among others, the side effects of the process, and their mitigation measures and the likely benefits of the product.

Part II

Answer one item from this part in the answer booklet(s) provided.

Item 5.

The European Union parliamentary commission in London made a resolution to stop the extraction of crude petroleum from Albertine region in 2023 as a measure to counteract its effects on climate. However, many Ugandans opposed the resolution of the British parliament urging them to avoid venturing into matters of other nations.

Task.

Make a write explaining the impacts of petroleum on the climate and the possible solutions to the challenge. You write up should include the ways why Ugandans would want the extraction processes to continue.

Item 6.

The UN-Africa summit in Egypt 2023 blamed the raise in the global temperatures on man. In the summit it was resolved that all countries should embark at limit the causes of global warming and suggest measures to sustain it.

Task.

Make a write up explain that possible causes of global warming, lay out strategies that may be used to curb it and its effects to the environment.

END