

Name: Stream:

545/1

CHEMISTRY

PAPER 1

2024

2 HOURS

UGANDA CERTIFICATE OF EDUCATION

S.4 TRIAL PAPER TEST 2

CHEMISTRY

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 booklets provided.*

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

SECTION A

Answer all the items in this section

ITEM 1

Most of the youths in Kampala depends on the fast foods prepared by peasant ladies for breakfast and lunch. They say the food has a nice aroma, the food can stay for some time when kept hence attracting them. On a certain day one the youths got stomach upset and decided to use paracetamol tablets for relief.

TASK:

Use your chemistry knowledge to;

(a) Explain

(i) Categories of the products used.

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(ii) The suitability of the products.

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(b) What are the side effects of using the products?

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(c) How can these side effects be mitigated.

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ITEM 2:

Patrick was sent to buy paraffin from a nearby petrol station. On reaching home a young sibling of Patrick thought it was water and poured it in the jerry can containing some water. He realized that he has to take the paraffin to the mother who wanted to use it for cooking in the stove. The mother realized that the paraffin had water.

TASK.

As a chemistry student;

(a) Explain to Patrick how the paraffin can be recovered from the water.

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(b) Show the difference between the paraffin Patrick got from the petrol station and the paraffin Patrick took to mother.

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(c) Give the impact of using the paraffin to the environment.

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SECTION B

Part I

*Answer **one** item from this part*

ITEM 3

Recently there is a lot of metal fabrication workshops which has provided youths with jobs. In these workshops, they mainly use metals made of iron and this has led to scarcity of iron. Government in response decided to give a local investor to set up an iron production plant in Lira where the materials needed to make iron were recently discovered. However, the community is concerned about its environmental effects, how they will benefit from the plant and how the process will occur.



The head of department chemistry has appointed you to sensitize the other learners.

TASK

Prepare a presentation you will make during the meeting.

Item 4

Due to improved standards of living most people in Kasese district have resorted to building their own houses. Most of the materials required to build are present but there is inadequate cement in the hardware stores in the place. In Kasese there is all the raw materials that can be used to make cement. The local leaders decided to start up a cement factory that can solve the problem but with minimal environmental impact.



However, the science club members in your school would like to know how the process of production will be carried out.

Task:

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

Part II

Answer one item from this part

Item 5

Part of Lubigi swamp in Busega village has been greatly encroached by people for farming, settlement and other human activities. This has attracted the attention of environmentalists from different government bodies such as NEMA, NFA among others.

The environmentalists are planning to create awareness to the people of Busega village through sensitization workshops organized in different cells of the village.



Task

As a chemistry student, prepare a short presentation you will deliver during the workshop

Item 6

Ntandi village in Bundibugyo district is found at the foot of Mountain Rwenzori and in Ssemuliki forest. People in this village mainly they get income from charcoal burning, raring of goats and cocoa growing. Recently there is a dry season and when it rains there is a lot of floods in the area, this has led to the goats dying, loss of property due to heavy floods and the Ssemuliki river where they get water for domestic use have started to dry up. The illiterate locals are now wondering why all these are happening even some of them are saying their village is be witched.



A sensitization week is to be organized in the village to explain the existing situation. The government officials have decided to use the theme “My forest my responsibility, my River our responsibility.

Task

As a chemistry student, write a message you will deliver upon invitation.

END