

KIYALA HIGH SCHOOL
END OF TERM ONE ASSESSMENT TEST -2024
CHEMISTRY
Paper 1 Theory
S.4

2 Hours 30 minutes

INSTRUCTIONS

- This paper consists of **six** examination items. It has **two** sections; **A** and **B**.
- Section **A** has **two** compulsory items.
- Section **B** has **two** parts; **I** and **II**. Answer **one** item from each part.
- Answer **four** examination items in all.
- Use of **illustrations and drawings** will earn you more scores.

SECTION A

Attempt all items in this section.

Item 1

OBO, a resident of Tukum village a place where they use borehole water, slid, fell and his white shirt became dirty. He decided to use a detergent to clean his shirt. The shirt remained with some brown spots yet he had rinsed it several times.

Task.

As a chemistry student;

- a)** Suggest a problem OBO made when choosing a product. **(02 scores)**

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- b)** Help OBO understand how the product works. **(12 scores)**

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- c)** Advise OBO on the challenges associated with the long term use of the product. **(08 scores)**

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b) Why the smell increases during a given time. (05 scores)

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c) What advice would you give to them on how they can avoid the bad smell. (05 scores)

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SECTION B

PART I

Attempt one item from this part.

Item 3

Soroti general referral hospital in Soroti district has been using chloroform for anesthetic process to make patients unconscious and make operations on them. The supplier of chloroform has stopped and the only alternative they can use is ethanol but they lack knowledge of manufacturing alcohol from local materials in Soroti.



Task.

As a senior ***four (4)*** student, write a report guiding them on how they can process the alternative mentioned above such that they continue working on patients. (20 scores)

Item 4

Owen is in the process of constructing his house without affecting the environment. She wants to build a good strong house; there are various building materials of different quality and properties on the market. However he doesn't know the quality of materials to use.



Owen thinks that choosing a quality material depends on the nature of the materials and has come to you for advice.

Task.

Use your chemistry knowledge to;

a) Explain;

i) Categories of materials.

(04 scores)

ii) The suitability of the materials.

(08 scores)

b) Advise Owen on the choice of materials.

(08 scores)

PART II

Attempt one item from this part.

Item 5

Abel, a resident of Amoru village is currently living in fear. This is because he has noticed that wherever he uses water from the well for washing clothes and dishes, he happens to use a lot of soap, on top of that he finds marks on the clothes and the dishes. However, this is not the case when he uses rain water or boils water from the well before washing. Abel is really confused, frightened and is attributing this to witch craft.

Task.

As a student of chemistry;

a) Help Abel to;

i) Understand the type of water in the well.

(02 scores)

ii) Understand how the water from the well is formed.

(07 scores)

iii) Know the ions responsible for the effects of that particular water type.

(04 scores)

b) Advise Abel on the possible ways of removing those ions and improve the quality of the water from the well.

(07 scores)

Item 6

We use objects in everyday life made from materials that are either plastics, glasses and metals.

Task

a) What are the useful properties of plastics?

(04 scores)

b) Plastic waste management is a problem in our communities today. There is poor disposal of plastics in our communities caused by human beings themselves. This is a big threat to human health around the community.



- i)* What threats do plastics pose to man and his environment? **(10 scores)**
- ii)* What would be the possible solutions to the threats possessed by plastics to the environment listen in **(b (i))** above. **(06 scores)**

Best wishes from Solomon