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CHEMISTRY PAPER 1

(Theory)

AUGUST

MOCK 2024

2 Hours.



MEBU EXAMINATIONS CONSULT

Uganda Certificate Of Education

MOCK ASSESSMENTS 2024

CHEMISTRY

PAPER 1 (Theory)

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.
- ✓ 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 items responded to will **NOT** be scored.

SECTION A

Attempt all items in this Section

ITEM 1

After working the whole day in their garden. Mary and Annet complained of pain and headache, Mary decided to take tablets of acetaminophen (Panadol) which were available in her drawer. Annet took some juice extract from Aloe barbadensis miller (aloe vera) plant. After a few hours, Mary got relieved from the pain but Annet claimed the pain was still on.

TASK;

a) As a chemistry learner,

i. Point out the mistake Annet made when choosing the product. (02 scores)

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ii. Help Annet to understand how the product works. (03 scores)

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b).Advise the two ladies on the challenges associated with the use of the products. (04 scores)

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ITEM 2

John, a resident of Wakikoola, a remote village in Buikwe district is disturbed by frequent rains due to a leaking house top. He is willing to work on his house without affecting the environment. He is aware that there are various materials on the hardware market for roofing his house. He also knows that in order for one to produce good quality roofing materials, he should select the right material with suitable qualities and properties. However, he is still confused with the choice of the materials to use and he has approached you for some advice.



TASK;

Use your chemistry knowledge to;

a) Explain

i. The categories of the materials. (02 scores)

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ii.The suitability of the materials. (03 scores)

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(04 scores)

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PART I

Attempt one item from this Part.

ITEM 3

In many industries, sodium hydroxide is used to make wood pulp and paper, textiles, soaps and detergents and as a drain cleaner. To ensure that sodium hydroxide is readily available and at a cheaper cost, one of the managers of a textile industry is planning to set up a sodium hydroxide production plant. Unfortunately, the residents have raised concerns about its environmental effects and their valuable land about to be taken by the investor.



The science club in your school is also wondering how the production process of sodium hydroxide will be carried out. As a result, the chairperson of the club has appointed you to make a presentation to be published in one of the local newspaper.

TASK;

As a chemistry learner, prepare a brief message that you will deliver during the presentation.

(12 Scores)

ITEM 4

Grain Pulse limited is one of Uganda's leading phosphate fertilizer manufacturer. It uses sulphuric acid as the main raw material. In a bid to cut the costs on the high revenue imposed on importing the acid, the management has constructed a production unit to set up a sulphuric acid production plant with minimal environmental concerns. A certain village in Kasese district has been selected for the plant. However, some residents in the region claim that the plant will not benefit them at all.

The science club members in your school would like to know how the production process will be carried out. They are seeking for guidance prior to addressing the school assembly.



TASK.

As a chemistry learner, make a write up they will use while addressing the assembly. (12 Scores)

Part II

Attempt one item from this Part.

ITEM 5

People of Kigaragara village in Isingiro district can easily cross into Tanzania for charcoal business. Due to increase in population of this district, many natural forests have been cleared to provide charcoal for use as fuel and natural swamps have been reclaimed to create space for settlement. These happenings have left the district officials wondering. As a result, the government through the district officials is planning to create awareness to the people in Isingiro District through sensitization workshops organized in different villages.



TASK;

As a chemistry learner, prepare a short presentation you will deliver during the workshop when invited. (10 scores)

ITEM 6

Kagulu village in Buyende district is developing at a faster rate. Many of the recently existing swamps and forests are now filled with buildings. Stone quarrying is the order of the day among most of the locals in the village. Recently, the wells have started drying up and yet the little water available is not fresh. The few residents that practice crop husbandry also say that seasons have changed and this has caused famine in the area. All these happenings have left many of the residents wondering. A sensitization workshop is to be organized in the district by the government through National Environment Management Authority (**NEMA**).

TASK;

As chemistry learner, prepare a brief presentation you will deliver upon invitation. (10 scores)

END

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