

KIYALA HIGH SCHOOL
END OF TERM ONE ASSESSMENT TEST -2024

CHEMISTRY

Paper 1 Theory

S.1

2 Hours 30 minutes

INSTRUCTIONS

- This paper consists of **three** examination items. It has **two** sections; **A** and **B**.
- Answer **all the items** in both sections.
- Use of **illustrations and drawings** will earn you more scores.

SECTION A

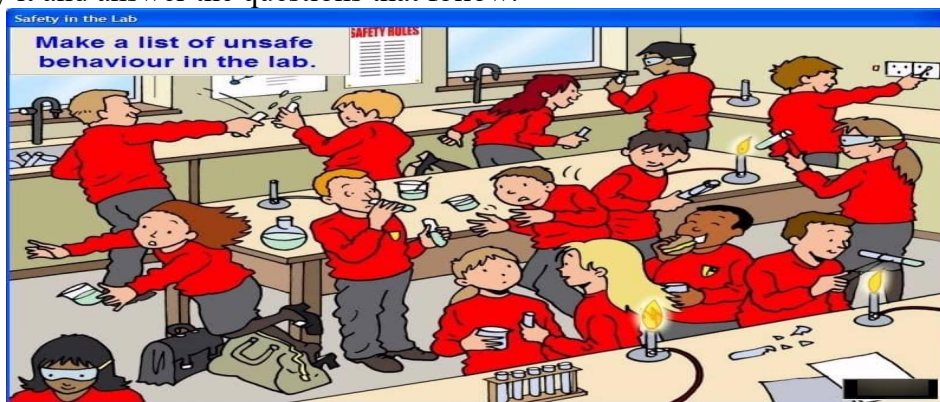
*Attempt **all the items** in this section*

Item 1

In chemistry, chemical experiments require a special room for carrying them out, although some experiments may be done outside in an open place. This place is called a laboratory.

its however important that at most caution is taken while in the laboratory to ensure safety for everyone carrying out the experiment.

The figure below shows unsafe behaviour from learners in a chemistry laboratory. Study it and answer the questions that follow.



- a)** Identify any **three (3)** unsafe behaviours exhibited by the students in the figure above. **(6 scores)**

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- b)** Did any of the learners take precautions while in the laboratory? Identify the **two (2)** precautions. **(4 scores)**

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c) Assuming you were invited to this class to talk to the students about laboratory safety. Write a simple message you would give them to ensure they stay safe while in the chemistry laboratory. (10 scores)

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Item 2

Chemistry is one of the most prestigious subjects studied at secondary level of education. When you study chemistry, you not only acquire knowledge about many chemical reactions and other substances, but you can also take up various careers after schooling.



a) Suggest any **four (4)** carriers that you can take up through studying chemistry.

(4 scores)

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b) Briefly describe how the knowledge of chemistry has been applied in the following fields in the Ugandan economy.

i) Health sectors

(2 scores)

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ii) Agriculture sectors

(2 scores)

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iii) Cosmetics sector

(2 scores)

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SECTION B

Answer all the items in this section.

Item 3

You are a chemistry teacher conducting a laboratory session to demonstrate the safe and effective use of the Bunsen burner, a heating apparatus.

Task

- a)** Explain the structure and working principle of the Bunsen burner, include the different parts of the burner and how it regulates the flow of the gas and air to achieve different types of flames. **(4 scores)**
- b)** Outline the safety precautions and guidelines that students should follow when using the Bunsen burner, including lighting and extinguishing the flame. **(10 scores)**
- c)** Describe the different types of flames produced by the Bunsen burner and explain the appropriate applications of each type of flame in the laboratory work. **(6 scores)**

Best wishes from Solomon