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## ***ST. MARY'S COLLEGE RUSHOROZA***

### ***Uganda Certificate of Education 2024***

#### ***S.1 chemistry***

#### ***Paper one***

***2 hours***

#### **Instruction to students**

- This paper consists of two sections **A** and **B**.
- Attempt **ALL** the items in both sections.
- Responses to items in section **A** should be written in the spaces provided.
- Responses to items in section **B** will be written on the answer sheets provided.
- Unnecessary cancelling, untidy and poor handwriting will lead to loss of scores.

#### **SECTION A**

##### ***Item one***

Many materials produced in industries come with signs to warn people against potential dangers if not well handled or used. The dangers that can arise from accidents are called hazards. Some of the products from the industries are used to perform some experiments in the laboratory with the signs indicated on the reagent bottles.

**Tasks.** As a S.1 chemistry learner;

- (a) Explain what is meant by the term “hazard”. (1 score)





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- (b) Some of the hazardous symbols on the reagent bottles are given in the table below. Identify the name of the hazardous symbol and the meaning. (8 scores)

Symbol	Name	Meaning
		
		
		
		

### *Item two*

At home, we use different sources of heat for cooking in the kitchen. However, in the laboratory, we use special equipment called a Bunsen burner. A Bunsen produces 2 forms of flames depending on whether the air hole is closed or open.

**Tasks.** As a chemistry learner;

(a) Interpret what a flame means. (1 score)

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(b) Identify the flame produced when;

(i) The air hole is closed. (1 score)

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(ii) Air hole is open. (1 score)

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(c) Make a write up about the characteristics of the flame produced when;

(i) The air hole is closed. (3 scores)

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(ii) The air hole is open. (3 scores)

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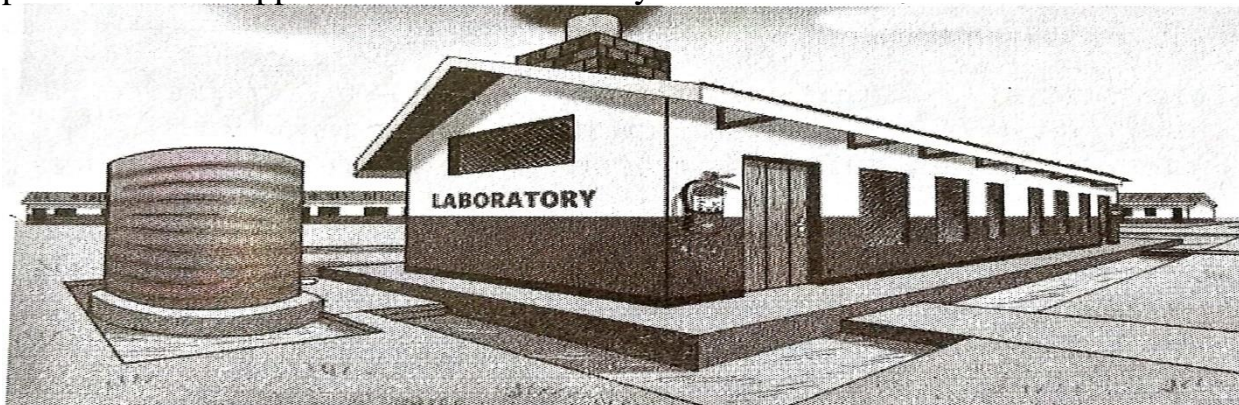
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## SECTION B

### *Item three*

Your local community has completed the construction of the chemistry laboratory at your local community school. The next stage of the project involves the purchase of the apparatus for the laboratory.



You are approached by the committee in charge of the purchase of the apparatus for advice.

**Task.** As a chemistry student, write an article advising the committee in charge of the purchase, the apparatus that they should buy, their uses and the safe measures that should be followed by the learners while using the laboratory. (11 scores)

### *Item four*

Tibarimbasa was sent by his mother to buy the salt from the nearby shop. On his way back, he found his friends playing along the way. He decided to join them. All of the sudden the salt fell down in sand. Tibarimbasa's mother heard about the news, she was very bitter and promised to beat up her son if the salt was not recovered. Tibarimbasa approached you for help.

**Task.** As a S.1 learner with access to the chemistry laboratory, help Tibarimbasa to regain the salt. (11 scores)

**=END=**

***CHEMISTRY DEPARTMENT SMACO***