



**EAGLE'S NEST SECONDARY SCHOOL KAMPALA**  
**Uganda Certificate of Education**

**COMPETENCE BASED ASSESSMENT EXAMINATIONS 2023**  
**CHEMISTRY**

**S.2**

TIME: 2RS

NAME: .....STREAM.....

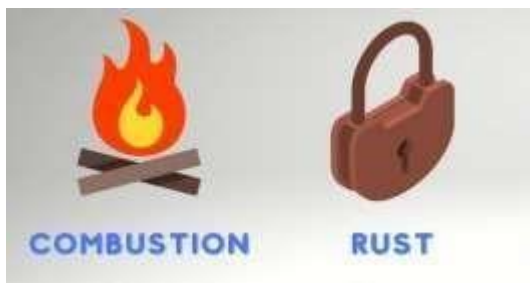
SIGNATURE:.....

**INSTRUCTIONS:**

- Answer **all** questions in the spaces provided.
- Illustrations in form of drawings should be made where necessary, with a sharp pencil.

**SECTION A**

1. (a) The figure below shows some examples of important chemical reactions in our daily life.



(i) Briefly explain the meaning of the chemical reactions shown above (04 marks)

Combustion.....

.....

Rust.....

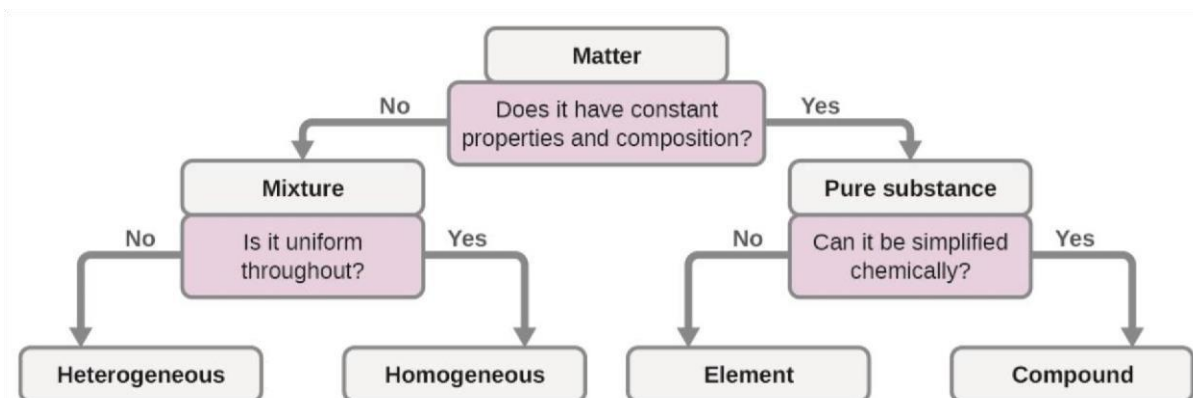
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(ii) State one condition of each process to occur (02 marks)

Combustion .....  
Rust .....

- (iii) How can you prevent your metallic Equipments from rusting? (04 marks)
- .....
- .....
- .....
- .....
- .....

2. As a senior two chemistry student, make a write up giving meanings and examples of the bolded words in the boxes. (10 marks)



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4(a). Kinetic theory of matter states that “*matter consists of very smallest invisible particles in the state of continuous random motion*” A teacher instructed S.2 students to come up with every day examples demonstrating the existence of particles in matter. Owen; a S.2 student presented his example before the whole class. His presentation was “when ***someone closes him or herself in a dark room with closed windows and doors and looks into a***

**ray of light penetrating through one simple hole in one piece of iron sheet, dust particles are seen moving in a zig zag pattern** “the teacher confirmed Owen's findings.

(i) State why the dust particles are seen moving in zig zag pattern.?

(01 mark)

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(ii) Give a reason for your answer in (a) (01mark)

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(iii) What conclusion can be drawn from Owen's simple experiment?

(01 mark)

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 .....

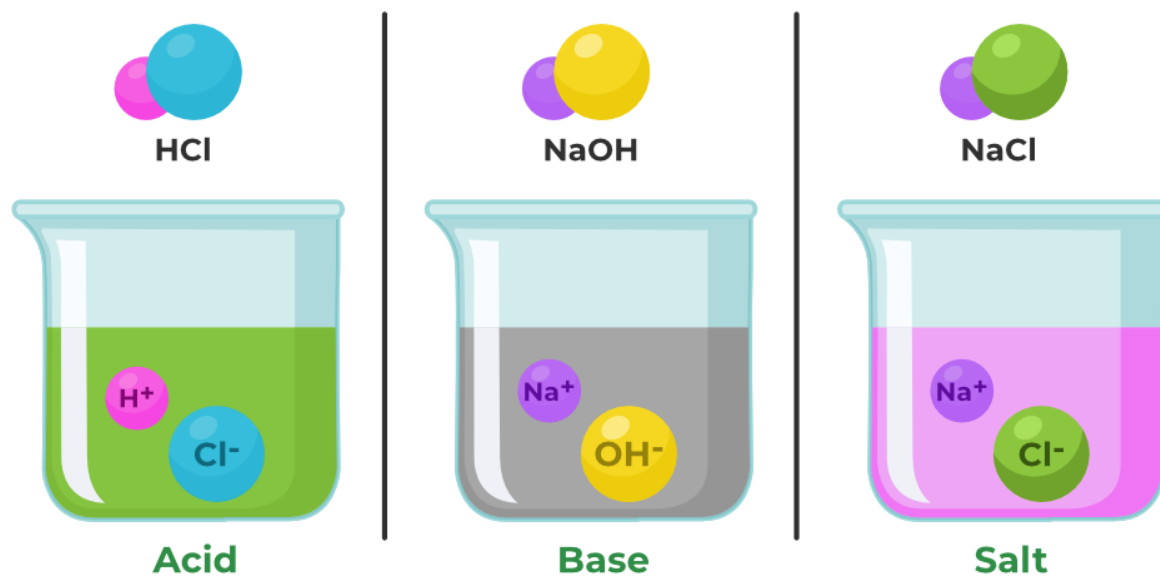
(iv) State what would be observed within the ray of light when the room gets hotter? (01 mark)

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(v) Explain your observations in (c) above. (02 mark)

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5. From the support material below.



Answer the questions below

(a) Using the support material above, with relevant examples,

Define;

i). An acid (2mks)

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Examples(3mks)

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ii). A base. (2mks)

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Examples. (2mks)

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b). Outline any three indicators found in the laboratory. (3mks)

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(b)Write down the symbols of the following elements

(04 marks)

|         |         |        |           |          |           |         |
|---------|---------|--------|-----------|----------|-----------|---------|
| Element | Bromine | Silver | Potassium | Nitrogen | Aluminium | Silicon |
| Symbol  |         |        |           |          |           |         |

END