

Student's Name:

Signature: Stream:

CHEMISTRY

Paper 1

2024

CHEMISTRY DEPARTMENT

S.2 END OF YEAR ASSESSEMENT 2024

CHEMISTRY

Paper 1

Theory

1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES:

This paper consists of two sections A and B

Answer all items.

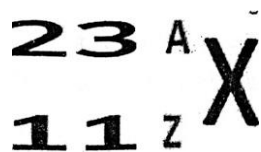
Any additional item(s) answered will not be scored.

SECTION A

Item 1

A team of scientists found a strange substance, calling it element X. Subsequently, they successfully determined its atomic number and mass number but couldn't put it on the periodic table because there

was no full discussion from other scientists yet, on what it does and how it affects the environment



You are required to contribute and help in placing it on the periodic table

Task:

As a chemistry learner help the scientists,

- (a) Using electronic structure, identify X and explain its category in the periodic table.

- (b) Predict the properties/ behavior of X when reacted with:

(use equations where necessary)

- (i) water

(ii) dilute hydrochloric acid

(c) Suggest with a reason the more reactive metal between X and magnesium.

(d) What are the possible uses of element X

SECTION B

Item 2

Peter, the cattle keeper, grazes his cattle on a community land. During the dry season, he practices bush burning and also takes his cattle to drink water from the community water source. Peter's practices have raised concern in the community

The chairperson has organised a meeting to create awareness for peter and the community

Task

As a learner of chemistry make a write up of the message the chairperson will present to the community.

END

SUCCESS! SUCCESS! SUCCESS!