

NAME:

SCHOOL:..... RANDOM NO:

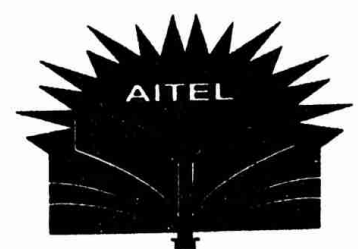
545/2

CHEMISTRY

PAPER 2

JULY/AUG 2024

2hours



**ASK INTEGRATED TEACHER'S MOCK
EXAMINATIONS BUREAU**

AITEL JOINT MOCK EXAMINATIONS.

Uganda Certificate of Education

CHEMISTRY

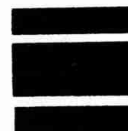
PAPER 2

Theory

2 Hours

INSTRUCTIONS TO CANDIDATES:

- ⌘ This paper consists of **one compulsory** examination item;
- ⌘ Answers to this item are to be written in the spaces provided in this booklet; use blue or black ink.
- ⌘ All working must be clearly shown in good handwriting
- ⌘ Mathematical table and silent non-programmable scientific calculator may be used.
- ⌘ You are not allowed to use reference books. (i.e. text books, phones etc.)
- ⌘ Candidates are advised to carefully read the item, make sure they have all the apparatus and chemicals they may need and then plan appropriately before starting.



A photographic laboratory uses sodium thiosulphate solution in combination with acids for fixing and stopping photographic development, however the quality of photographs produced has greatly reduced since they started using a new consignment of sodium thiosulphate bought recently. The quality controllers explained that the quality of photographs and the processing time is dependent on the amount of sulphur deposited in the process which depends on the concentration of the thiosulphate used.



BA₁ a solution of **sodium thiosulphate** that was recently bought

Task

- (a) As a learner of chemistry
- (i) Design an experiment you will carry out to determine how concentration affects the amount of sulphur deposited during a reaction of BA_1 and BA_2

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Handwritten notes area with 8 horizontal lines.

(ii) Carry out the experiment and record your findings

(iii)

Handwritten notes area with 14 horizontal lines.

(iv) Obtain values of $\frac{1}{\text{Time}}$ and explain your finding.

Handwritten notes area with 8 horizontal lines.

(b) What can the students deduce from the findings?

END