**AMAHORO SECONDARY SCHOOL**

**Uganda Certificate of Education**

**END OF TERM ONE EXAMS 2024**

CHEMISTRY

**Paper 2**

Practical

Time 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. Graph paper will be provided****.***

*Mathematical table and silent non-programmable scientific calculators may be used.*

*You are* **not** *allowed to use reference books* (*i.e. text books, booklets on qualitative analysis 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.s*

**Item1.**

A photographic company uses sodium thiosulphate solution in combination with acids for stopping and fixing photographic development for making photos for their clients, however their clients have always complained about the nature of the photos as the photos easily fade over time, the quality controller of the company explained that the quality of photos and processing time depends on the amount of sulphur deposited and processing time which depends on the concentration of thiosulphate used.

*Na2SO3(aq) + HCl(aq) NaCl(aq) +S(s) +SO2(g) + H2O(l)*

*The manager of the laboratory immediately demanded an investigation to determine this better.*

*You are provided withp;*

*BA1- A solution of sodium thiosulphate that was recently brought.*

*BA2- Hydrochloric acid solution.*

***TASK***

*Desine and carry out an experiment that can be performed to help the manager*

Aim of the experiment

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Hypothesis

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Variables

Independent………………………………………………………………………………………………

Dependent ………………………………………………………………………………………………….

Controlled…………………………………………………………………………………………………

Materials for the experiment

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Riscks and mitigation

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Precaution

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Procedure of the experiment

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Data record

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Data analysis and interpretation

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Conclution.

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