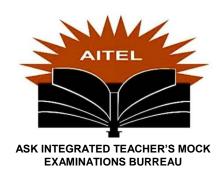
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545/2 CHEMISTRY PAPER 2 JULY/AUG 2024 2hours



AITEL JOINT MOCK EXAMINATIONS.

Uganda Certificate of Education

CHEMISTRY

PAPER 2

Practical

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 in
- All working must be clearly shown in good hardworking writing
- 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.



Item 1

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.

$$S_2O_3^{2-}(aq) + 2 H^+(aq)$$
 \longrightarrow $S_{(S)} + SO_2(g) + H_2O_{(I)}$

The manager of the factory immediately demanded an investigation to understand this better.

You are provided with;

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

BA₂ hydrochloric acid solution.

(a) As a learner of chemistry

Task

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(i)	Design an experiment you will carry out to determine how concentration affect	ts the
	amount of Sulphur deposited during a reaction of BA_1 and BA_2	

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Obtain values o	of <u>1</u> and Time	l explain your	finding.	
Obtain values o		l explain your	finding.	
Obtain values o		l explain your	finding.	
Obtain values o		l explain your	finding.	

END