Student's Name: .....Signature: .....

545/2

CHEMISTRY

(PRACTICAL)

Paper 2

2 hours.

MEBU EXAMINATIONS BOARD

UGANDA CERTIFICATE OF LOWER SECONDARY EDUCATION

CHEMISTRY PRACTICAL

SENIOR FOUR

2 Hours

INSTRUCTIONS:

- This paper consists of **onlyonecompulsory** item. All answers to this item **must** be written in the answer sheet(s) and graph paper(s) provided.
- All working **must** be clearly shown in **blue** or **black** ink.
- All graph work should be done in **pencil.**
- Learners are advised to spend part of their time in **analysis** and **planning** their investigations.

In this experiment, you will investigate the effect of concentration on the rate of reaction between sodium thiosulphate solution and hydrochloric acid solution.

You are provided with the following:

-BA1 which is 2M hydrochloric acid solution ($60cm^3$)

-BA2 which is a 0.2M sodium thiosulphate solution ($60cm^3$)

-All other apparatus required for the investigation

Carryout your own investigation maintaining the volume of BA1 used $10cm^3$ throughout the investigation while altering that of BA2 starting from $50cm^3$,$40cm^3$,$30cm^3$,$20cm^3$ and $10cm^3$ respectively and write a brief report about your findings.

Your report should include the following:

(a).Aim of the experiment.

(b).Hypothesis.

(c).Variables of the experiment.

(d).List of apparatus and materials used.

(e).Procedure of the experiment.

(f).Tabulation of data

(g). (i).A graph of volume of sodium thiosulphate solution (cm^3) against time(s).

(ii).A graph of volume of sodium thiosulphate (cm^3) against the reciprocal of time(s^{-1})

(h).Conclusion(s) from the investigation. (30 scores)

END