Student's Name: _____

Signature: _____

545/2
CHEMISTRY
(PRACTICAL)
Paper 2
2 hours.

ABDUL-RAHMAN BUN AUF ISLAMIC INSTITUTE NAMAGOMA

CHEMISTRY DEPARTMENT EXAMINATIONS BOARD

CHEMISTRY PRACTICAL

2 Hours

INSTRUCTIONS TO STUDENTS:

This question paper consists of only **one** *question which is* **compulsory.**

You will **not** *be allowed to start working with the apparatus for the* **first half** *of an hour.*
You are ***advised*** *to use this period to* ***plan*** *the required items in the report,* ***determine variables*** *and also select* ***appropriate apparatus*** *to be used in your own investigation*

You are reminded to record your observations as soon as they are made.

All working **must** *be clearly shown in* **blue** *or* **black** *ink. Any work done in* ***pencil*** *will* **not** *be marked.*

Graph paper is provided.

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

For Examiners' Use Only										
Question 1	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**i**	**Total**
Max marks	**1**	**3**	**1**	**3**	**7**	**5**	**5**	**3**	**2**	**30**
Actual marks										

QUESTION 1.

In this experiment you will investigate the rate of reaction between dilute hydrochloric acid and sodium thiosulphate at different temperatures.

You are provided with the following;

- **BA1** which is 2M hydrochloric acid ($30cm^3$).
- **BA2** which is 0.05M sodium thiosulphate solution ($160cm^3$).
- All other apparatus required for the investigation.

Carryout your own investigation at room temperature, 35^0C, 45^0C, 55^0C, and 65^0C of **BA2** and write a brief report about your findings. Your report should include the following:

a. Aim of the experiment.

b. Variables of the experiment.

c. Hypothesis.

d. List of apparatus and materials used.

e. Procedure of the experiment.

f. Tabulation of data.

g. A graph of $\frac{\mathbf{1}}{\mathbf{t}}$ against temperature of **BA2**

h. Slope of your graph with units indicated.

i. Conclusion from the investigation.

(*30 marks*)

END