



JINJA MODERN SECONDARY SCHOOL

Uganda certificate of education

S.2 CHEMISTRY

Paper 2

(Practical)

2 hours

Name.....

Signature.....

INSTRUCTIONS

*This paper consists of two sections **One compulsory examination item**. Answers to this item are written in the spaces provided in this booklet .Use blue or black ink*

All working must be clearly shown .

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

*You are **not** allowed to use reference books like practical textbooks and booklets*

*You are advised to carefully read the item, make sure you have all the apparatus and chemicals you may need and then **plan** appropriately before starting.*

Item 1

Two S2 Students of Jinja Modern SS often suffer from heartburn and peptic ulcers especially after eating posho and beans which comes as a result of the accumulation of hydrochloric acid in the stomach. From their research work, these students are now aware that one of the ways of overcoming heartburn is by taking antacids. The two have decided to work on the project where they need to select a suitable alkali for the antacid drug production. One student suggested alkali X while the other suggested that alkali Y is better. However the best alkali to be used is the one which minimizes heat during the reaction with the stomach acid

You are provided with

- BA1 which is a solution of dilute hydrochloric acid
- Alkali X and Y
- Some apparatus

As a chemistry learner

- (a) Design an experiment you will carry out to help the two students make the right choice.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

(b) Carry out the experiment and record your findings

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

.....
.....
.....
.....
.....
.....

(c) What conclusion can you draw from your findings.

.....
.....
.....
.....
.....
.....

END