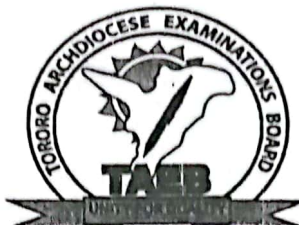


545/2 Inst. Sch
CHEMISTRY
PRACTICAL
INSTRUCTIONS
Paper 2
July/August 2024



TORORO ARCHDIOCESE EXAMINATIONS BOARD

Uganda Certificate of Education

MOCK EXAMINATIONS – AUGUST 2024

CHEMISTRY PRACTICAL INSTRUCTIONS

545/2 Inst. Sch

CONFIDENTIAL

This information is given to facilitate preparation of examination.

Great care should be taken that the information given below does not reach the candidates either directly or indirectly.

INSTRUCTIONS FOR PREPARING CHEMICALS AND APPARATUS

[NB: The Headteacher must ensure that the teacher responsible for preparing the chemicals and apparatus hands in his/her trial results properly sealed in a separate envelope and firmly fastened (attached) to the candidates scripts envelope(s)]

Turn Over

Confidential.

1. The description of the reagents and chemicals specified below does not necessarily correspond with the description in the question paper. Candidates must not be informed of the differences.
2. Candidates are not allowed to use reference books (i.e text books, booklets on qualitative analysis etc) during examination.
3. In addition to the fittings and substances ordinarily contained in a chemistry laboratory, each candidate will require;

1 piece of white sheet of paper.

1 glass beaker or conical flask (250ml)

1 measuring cylinder (100ml)

1 measuring cylinder (50ml)

1 burette (50ml) or measuring cylinder (10ml)

1 stop clock/watch

120cm³ of distilled water

160cm³ of solution **BA1**

60cm³ of solution **BA2**

BA1 is prepared by dissolving 30g of sodium thiosulphate salt $[\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}]$ in one litre of solution.

BA2 is 1M HCl prepared by diluting 86cm³ of ordinary concentrated hydrochloric acid to make one litre of solution.

END

Name.....Centre/Index No.....

Signature

545/2

CHEMISTRY

Paper 2

July/August 2024

2 Hours



TORORO ARCHDIOCESE EXAMINATION BOARD

Uganda Certificate of Education

MOCK EXAMINATIONS 2024

CHEMISTRY PRACTICAL

PAPER 2

2 Hours

INSTRUCTIONS TO CANDIDATES

This paper consists of one compulsory examination item. Answers to the item are to be written in the spaces provided in the booklet. Use blue or black ink.

All working must be clearly shown. Graph paper will be provided.

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

You are not allowed to use reference books (i.e text books, books 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.

Turn Over

Item 1

Most health centres in Uganda use Sulphur when mixed with other chemical substances for the treatment of skin conditions. The large number of patients in the various health centres has increased the demand of sulphur. Sulphur can be produced by the reaction between sodium thiosulphate and dilute hydrochloric acid according to the equation:



The pharmacists have advised that concentration of the above chemicals used to produce sulphur must be adjusted for a better yield of sulphur because it affects the rate of the reaction.

You are provided with:

BA1 which is sodium thiosulphate solution and **BA2** which is dilute hydrochloric acid.

Task

As a learner of chemistry;

- (i) Design an experiment you will carry out to determine the effect of concentration on the rate of reaction between **BA1** and **BA2**.

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Handwriting practice lines consisting of 20 horizontal dotted lines.

[illegible]

(iii) What conclusion can you make from your findings?

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END