

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

Signature

545/3

CHEMISTRY

PRACTICAL

Paper 3

July/August 2024

2 Hours



TORORO ARCHDIOCESE EXAMINATION BOARD

Uganda Certificate of Education

MOCK EXAMINATIONS 2024

CHEMISTRY PRACTICAL

PAPER 3

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

Lira District is leading producer of simsim and sun flower which is used for producing cooking oil. One of its factories would like to add value to the oil by turning it to margarine. To achieve this, a chemist has advised them to add hydrogen gas to the oil in the presence of palladium catalyst. Hydrogen gas can be produced when metals react with dilute acids according to the word equation;



The metals available are A,B and C which are more reactive than hydrogen. Factory workers are wondering which of these metals can produce for them hydrogen gas very fast so that they try this out.

You are provided with the metals **A**, **B** and **C** and solution **BA1** which is dilute sulphuric acid.

Task

As a learner of chemistry;

- (i) Design an experiment you will carry out on metals A, B and C using solution BAI to determine a suitable metal which can be used by the factory workers to produce hydrogen gas very fast.

[illegible]

(ii) Carry out the experiment and record your findings.

[illegible]

- (iii) Use your results to come up with the most suitable metal for producing hydrogen gas very fast by the factory workers.

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END