

NAME:.....

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545/2

CHEMISTRY

Paper 2

JULY/AUG 2024

2 Hours

ASSHU ANKOLE JOINT MOCK EXAMINATIONS 2024

Uganda Certificate of Education

CHEMISTRY

Paper 2

Practical

2 Hours

INSTRUCTIONS TO CANDIDATES

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

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

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

You are not allowed to use reference books

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.

Item one

In a certain hospital, medical staff is concerned about patient discomfort during procedures involving alkalis and acids, particularly in medication administration. Hospital administration prioritizes improving patient experience by ensuring the use of alkalis and acids that don't cause significant heat changes above 5000J during reactions. Learners of a nearby school want to determine the energy change for a reaction between alkali **Q** and acid **R** used in medical administration.

You are provided with the following:

BA1 which a solution of acid **R**

BA2 which is a solution of alkali **Q**

Task

(a) As a chemistry learner,

(i) Design an experiment you will carry out to determine the heat change between BA1 and BA2.

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[illegible]

(ii) Carryout the experiment and record your results

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(iii) Obtain the maximum heat produced during the reaction

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(b) What conclusion can you make from your investigations?

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END