Candidate's Name:		
Signature:	Random No.	Personal No.
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(Do not write your School Centre Name or Number anywhere on this Booklet.)

545/2 CHEMISTRY Paper 2 (Practical) Oct./Nov. 2024 2 hours



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Certificate of Education

CHEMISTRY

Paper 2 (Practical)

2 hours

INSTRUCTIONS TO CANDIDATES:

This paper consists of one compulsory examination item.

Answers to this item are to be written in the spaces provided in this booklet. Use blue or black ink. Any work done in pencil except drawings and graph will not be scored.

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.

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.

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Turn over



ITEM

A sports Club ordered for supply of chemical compounds to be used for making cold packs, which can be used to relieve pains of injured players. Normally, cold packs work on the principle of a substance mixing instantly with water, resulting into a cold solution, which can be applied onto an injured body part, thus relieving pain. A good cold pack is one that becomes cold in a short time.

Two chemical compounds were delivered to the Club management and they want to select the most effective chemical compound. However they are stuck as to how to determine the most effective one. You have been contacted for help.

You are provided with the following: -

Equal masses of solids, X and Q, which are compounds that were supplied to the Sports Club management.

Task:

As a student who has studied Chemistry, use the materials availed to you to;

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b) carry out	he experiment and record your results.
(A minim	m of six readings required.)
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(c) analyse y	our results and advise the Club management accordingly.
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- 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 during the examination.
- 3. In addition to the fittings and substances ordinarily contained in a chemistry laboratory, each candidate will require:

1 plastic beaker (100 cm³).

1 thermometer ($^{-}10 - 110$ $^{\circ}$ C).

1 stop clock or stop watch.

200 cm³ of distilled water.

6 g of Q in a stoppered container.

6 g of X in a stoppered container.

X and Q will be provided by UNEB.