

Candidate's Name:

INDEX NUMBER:

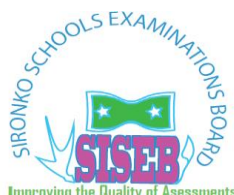
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CHEMISTRY

Paper 3

2024

2 hours



SISEB-MOCK EXAMINATION 2024
Uganda Certificate of Education
CHEMISTRY
Paper 3
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.

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

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

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

Mr. Mubata is a Medical Laboratory technician in Mbale Regional Referral Hospital. He ordered for different chemicals from his supplier among which included acetic acid (CH_3COOH), an antimicrobial agent used to treat susceptible infections of the external auditory canal and sulphuric acid an ingredient in chemotherapy drugs.

During packaging process, the supplier forgot to put labels on the container of each acid solution. Mr. Mubata has failed to identify each of the acid solutions. It's believed that each of the acid solutions have different heat changes with the alkalis and that Acetic acid has lower heat of reaction than sulphuric acid.

You are provided with:

Solutions BA1 and BA2 which are different samples of the acid solutions.

Solution BA3 which is an alkaline solution.

Task

As a student of chemistry,

a) Carryout a scientific investigation to help Mr. Mubata establish the identity of solutions BA1 and BA2.

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b (I) Record your findings of the experiment

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II) Analyze your findings in b(I) above

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c) What conclusion can Mr. Mubata make from your findings

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END