

Names:.....**Index. No:**.....

School Exam Number.....**Signature:**.....

*Candidates should **NOT** write their Centre Name
or Centre Number anywhere on this booklet*

545/1
CHEMISTRY
(THEORY)
Paper 1
2 August 2024
2½ hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Lower Secondary Certificate of Education

CHEMISTRY

Paper 1

THEORY

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

*This paper consists of **two** Sections **A** and **B***

*All items in Section **A** are compulsory and must be answered in the spaces provided*

*Section **B** has **four** items from **two** Parts. Candidates are required to attempt **one** item from each Part.*

*All your work **must** be in **blue** or **black** ink. Any work done in pencil **except** drawings will not be marked.*

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

FOR ASSESSORS' USE ONLY						
Item	1	2	3	4	5	6
Score						

SECTION A: COMPULSORY

1. Maama Agaba, a popular food vendor in Kikoni zone has been using a new ingredient in her dishes to enhance the food flavor and texture. However, complaints related to stomach issues and allergic reactions have been reported to her from a number of customers. She is considering using an alternative ingredient but needs guidance.



Task

As a learner of chemistry:

- (a) Point out the best alternative product she can use.

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- (b) Explain the function of the product you have chosen.

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This image shows a full page of white paper designed for handwriting practice. It features approximately 20 evenly spaced horizontal dotted lines running from left to right across the entire width of the page. There are no margins, text, or other markings present.

2. Umaru wishes to start up a textile industry in order to produce materials to be supplied to the neighboring schools for making corporate wear for the staff members. However, he lacks knowledge on the choice of the best materials that can be used with minimal environmental effects.



Task

As a learner of chemistry:

(b) Explain

(i) the category of materials;

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(ii) Suitability of the materials

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(b) Advise on the choice of the best materials.

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SECTION B

Choose one question from each Part

Part 1

3. A large chemical plant in a rural area is considering producing ammonia to be used in making fertilizers in order to meet the growing demand for fertilizers in the agricultural industry. However, many residents in the area lack knowledge on how the production process can be carried out with less impact to the environment.



Your fellow students also wish to understand the same. You have been selected to make a presentation to them by your teacher.

Task

As a learner of chemistry, make a write up of the message that you will deliver to them.

4. A copper mine is proposed for development in Karamoja district. However the production process requires large amounts of energy and water which could affect the environment. Additionally, many residents are also wondering how the production process and its benefits can be balanced with minimal effects.



Task

As a learner of chemistry, make a useful write up to them.

Part 2

Choose one question from this Part

5. With the increasing demand of charcoal and firewood among the residents of Mpigi district, a large part of Mpanga forest was cleared. Consequently, the area started experiencing little rainfall and flooding. This has attracted the attention of the district chairman and thus organized sensitization workshops to address the challenges in the community.



Your school has been invited and you have been selected among the speakers with enough knowledge of chemistry knowledge.

Task

As a learner of chemistry make a write up of what you expect to be delivered in the meeting.

6. The collapse of Masaka Highway in Busega was attributed to the heavy rainfall that led to flooding, weakening the road foundation. Additionally, the many human activities taking place in the swamp surrounding it such as industrialization and human settlement contributed to its shallowing hence erosion.



The environmental experts have embarked on the sensitizing the community with the goal of finding a solution to the current challenges and those likely to occur.

Task

As a learner of chemistry, make a write up of your expectations in the meeting.