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(Do not write your school/Centre Name or Number anywhere on this booklet)

545/1 **CHEMSITRY** Paper 1 Jul/Aug 2024 2 hours



BUSOGA REGION JOINT EXAMINATION BOARD

Uganda Certificate of Education

CHEMISTRY

PAPER 1

2 Hours

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

All your work must be in blue or black ink. Any work done in pencil except drawings

Mathematical tables and silent non-programmable calculators may be used

	For Assessors' U	se Only		
Item 1	2 3	4	5	6
Score				

SECTION A (answer all items in this section)

Item1

Maria, a popular food vendor 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 by customers. She is considering using an alternative but needs guidance.

Task	
As a	learner of chemistry
a)	Point out the best alternative product she can use
•••••	······································
•••••	

	······································

b)	Explain the function of the product you have chosen

c) Ev	aluate the impacts associated with long-term use of the product.
**********	use of the product.
········	

Item 2

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

Task	
As a las	dan ba
a lean	ner of chemistry,
a) Expl	ain State of the s
(i)	The categories of materials
• • • • • • • • • • • • • • • • • • • •	

• • • • • • • • • • • • • • • • • • • •	·····
(ii)	Suitability of the materials

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b) Adv	ise on the choice of the best materials.
	••••
	SECTION B

Item 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 effected with less impact to the environment.

(Choose one item from each part) Part 1

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.

Item4

A copper mine is proposed for development in Karamoja district, however the production process require large amounts of energy and water which could affect the environment. Additionally, many residents are al_{s_0} 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 item from this part)

Item5

With the increasing demand of charcoal and fire wood 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 since you have enough chemistry knowledge.

As a learner of chemistry make a write up of what you would deliver in the Item 6

The collapse of Masaka high way 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

The environmental experts have embarked on the sensitizing the community with the gear of finding a solution to the current challenges Task

If you have been invited to give a speech in the community gathering. make a write up of your speech.