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**CHEMISTRY** 

Paper 1

2024

MAKINDYE SECONDARY SCHOOL

MID TERM 2 EXAMS (S3)

Uganda New Lower Secondary Certificate of Education

**CHEMISTRY** 

Paper 1

## INSTRUCTIONS TO CANDIDATES:

This paper consists of two sections: A and B. It has three examination items.

Section A has two compulsory items.

Section B has one Item compulsory

Answer all three items

Answers to section A and Section B must be written in the spaces provided.

## Section A

## Item 1.

One of the SDGs (Sustainable Development Goals) by 2030 in Uganda is access to clean water. Previously the government embarked on distributing water points in different villages that lacked access to clean water. Some villages received pumped water by solar, boreholes and in others the government decided to renovate their wells. Complains have arisen from different villages that received the water points. The villagers claim that, grey spots are always left on their clothes after washing, even if they rinse them several times. They have also complained about the increase in the amount of the cleansing material they use for washing their clothes.





Task:

As chemistry leaner:

a) Help the villagers benefiting from the programme understand the problem they made when choosing the cleansing materials.

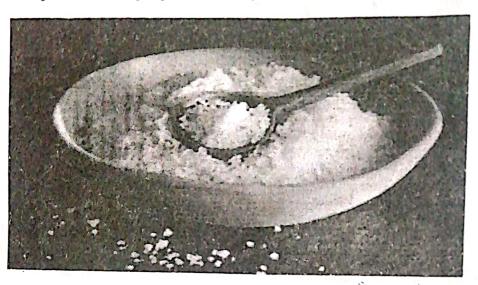
They chose scapy	determent, Instead	y of sogpless 02
detergent		

Mote; Alearner is supposed to bring out the category

washing process.	the chosen cleansing material works during the
Sefergent has two parts b	yelrophilic and hydropholic part
Byldropaules Fixt dissolues in	sesser while se bythophobic fort
Structo le dist : Continued	agitation encures multiplanous
c) Advise the villagers on the challeng material they use.	ges associated to long term use of the cleansing
Soupy detergent	
Eye redness i mitigare	ed almough washing eyes with water
Spapless detergent	03
Monthiodegradable, Por disposal of the god of d) Evaluate the products	with coater; mitigated through proper proceder with detergent;
Both ove effective in s	oft water of
Differences	
Soury	Sanpless 02
Forms scom in hand	Doesnot form soum in hand
water . J	water . It
•	the state of the s
	na

## Item 2.

According to an industrial chemist hosted on a national television, table salt plays a vital role in various industrial applications due to its properties. Your siblings watching the television are left wondering about what the chemist said and want to know the composition and properties of crystals of table salt.



Task:

As a chemistry student:

- (a) Help your siblings to
- (i) Explain category of the product

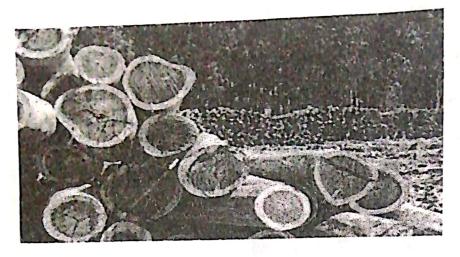
Table sait is Ha sodium chloride. Macl Sodium chaniele is acompound. A compound is acompound made up of more than one element, the Socium chiende is made up of sod Elements sodium and Chlorine, An element is asubstance that comnot be splint into forther substance.

Learner identifies () sodiom chionde

- (3) Define un element

(ii) Predict the properties of th	_	
Because Mach is	10016 Compoonel,	has the following properti
- soluble in water		any 2 (02)
- High melting and be	oigng point	
- Conducts Plactricity.		
(ii) Show them the possible us		
Used in baking of	charpati's	
used in manyfact	THE OF SOAP	any 2 (02)
Addy farte to force	1	
	4.	
(c). Guide them on whether t	he product is environme	entally friendly or not.
The product us ear	comment friencelle	1 because it is
neural; (02)		<u> </u>
SECTION B	5 09	
Item 3.		
Uganda is landlocked countries kilometers with a population	of about 45 million peo	of approximately 242034 square  ople. Uganda has substantial natural

Uganda is landlocked country which covers an area of approximately 242034 square kilometers with a population of about 45 million people. Uganda has substantial natural resources including forests, lakes and rivers, oil reserves, rocks and small mineral deposits such as copper, limestone and gold. Due to the increasing population and human activities these resources are being over exploited which has led to environmental degradation. The environment club in your school is planning to create awareness to the people around your school community through a sensitization workshop organized by the village L.C 1.



Task.

As a student of chemistry, prepare a presentation you will deliver during the workshop upon invitation. (10 scores)

Catego	J. Natural responses are categorized into towo. Renewable and
Any 6	Non-renewable resources:
score	Renewable natural resources are resources that can replaced
(3)	affer use forexample Air and water.
	Non-Renewable natural recoveres are responses that campe
	be replaced after use forexample fossit fuels and Rocks and minerals.
composition	n's Air is made up of oxygen, Nimogen, Combon-dioxide,
any 2	rare gases
Sore	Water is made up of hydrogen and oxygen.
(02)	Minorals include copper, copall, collium etc
	Possis fuels are muche of of Garbon, hydrogen and oxygen
	Rocks are categoized into metamorphic, Sectionentary,
	190000 poks

Impact of human activities on natural resources, how it occurs and mitigation, Allarner x Transcuti Defforestation involves withing down of trees, which explain increases the level of carbon dioxide in the atmosphere the impactionce the trees that coord have used carbon dioxide and mitigate motosyntheris are reduced; This into results into only one global warming since carbon diexide is agreen rouse gos. activity Mitigation Score This can be mitigated through afforestation which Involves Platting of trees. Benefits of Natoral resources. (Note; learners should only give natural benefits). Air contains oxygen that facilitates respiration which involves broaking down of food to release Energy. Air contains carbon dioxide that facilitate photosynthesis which involves making of foud by green Plants Water is agratic basistant for agratic organisms.

**END** 

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