### UGANDA CERTIFICATE OF LOWER SECONDARY EDUCATION

### S.2 END OF TERM TWO - 2023

CHEMISRY

#### PAPER ONE

TIME: 2 HOURS

## SECTION A: (Attempt all questions from this section)

1. Match the following items of column 1 with column 2 and choose the correct answer.

S/N	COLUMN 1	COLUMN 2
a)	Acet ic acid	St omach
b)	Formic acid	Curd
c)	Lactic acid	Bee sting
d)	Hydrochloric acid	vinegar

	<u> </u>	Luctio dola	Dec strig
	d)	Hydrochloric acid	vinegar
2.	witnessed amongst senior one student's in our school.		
	a) Ide	ntify any two possible cause	s of laboratory accidents
		. , . ,	· · · · · · · · · · · · · · · · · · ·
	h) Che	elabat accidentally dot burnt	with a liquid while heating a liquid in the lab.
	i.	, ,	n sustained with the liquid
	1.	Name the type of builting	·
	••••••		
	::	\\hat + of f act a in page	ible accept by this because
	ii.	What two effects is poss	ably caused by this burn
	•••••		
	•••••		
	iii.	Outline three procedures	stofollowin giving first Aid
	•••••		
	c) Mer	ntion four items found in a f	irst Aid Kit and their uses
3. 5	State ar	ny <b>two</b> (a) Write the name gi	ven to bases that are highly soluble in water? Give an
	ample	y two (a) virte the harre g.	von to bacco that are mighty colable in viator. One an
••••	•		
1	h) How	istooth decay related to pH	
_	5	Edit with	WPS Office

Component	Per cent age composition by volume	
marks)	to fill in the blank spaces.	(05
, ,	low show the component of air and its percentage	· · · · · · · · · · · · · · · · · · ·
	er Bwas containing sodium hydroxide solution. Ex ntaining an acid and a base	piain now sne can identify (02
` ,	as given two beakers A and B. Beaker A was cont	•
	les of indicators found in the laboratory	(03
solution		
(ií) Write a word	composition of the new solutionequation between and acid and base to show the	
• • •	an acid and a base and formed a new solution	(02 marks)
(b) Base		
(a) Acid		
different salts wh	oratory we often encounter many chemicals such nich are used when during both qualitative analys ing of the following terms	
fresh milk		
•	 nmer season, a milkman usually adds a very small	amount of baking soda to
` ' '	conducts electricity whereas distilled water does	s not
(d) Explain the	f allowing	
area relieve	es. How?	
(c) Why does be	ee string cause pain and irritation? Rubbing of	baking soda on the sting
•••••		

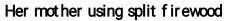
Nitrogen		
Carbon dioxide		
	0.03%	
	0.9%	
Water vapour		
(b) Identify the component of air which can be detected by (03 mark		

- i. Glowing splint .....
- ii. Anhydrous copper (II) sulphate .....
- iii. Calcium hydroxide solution .....

### SECTION B: (Attempt any 2 (two) in section B)

6. Natakwa is a student in Kapchorwa Standard Academy. When in the chemistry class, their teacher taught that melting of candle wax when a candle is burning is a physical change. The teacher told them to go and research more from a particular book in the library about chemical and physical changes. On reading the book, she found that a burning candle has both physical and chemical changes. Natakwa wondered which chemical change is in the burning candle since their teacher had only said that a burning candle has only physical change. When she went back home, she saw her uncle splitting firewood into small pieces. At the same time, her mother was using the splitted pieces of wood to cook food.

**Burning Candles** 







- (a) Differentiate between physical and chemical changes
- (b) What type of change is
  - i. Melting of candle wax
  - ii. Splitting firewood
  - iii. Burning of firewood
- (c) Make a list of other common changes in our homes

S/N	PHYSICAL CHANGES	CHEMICAL CHANGES
(i)		
(ii)		
(iii)		

10. Weathering results in soil or mation

- a) What is weathering?
- b) What type of weathering is shown above?



- c) Rocks are extremely significant today, with people saying "Rocks are a wealth." And those in inheriting it are sometimes lucky though they try to regret, of where to build and bury their dead
  - i. Explain the six ways in which rocks are beneficial to man?
- ii. Suggest four problems faced by people living around rocky places

# **END**

"Education is a powerful weapon that changes the world."