Student's Name:	Who inspires you			
Future Aspiration	Class	Stream		
	S. 1			

(Write your Name, Class Stream and School in the spaces provided.)

545/1
CHEMISTRY
(Theory) Paper 1
October 2022
1 ½ hours

Uganda Certificate Of Education

S.1 COMPETENCE BASED ASSESSMENT EXAMINATIONS

Term III CHEMISTRY (THEORY)

Paper 1
1Hour: 30 minutes

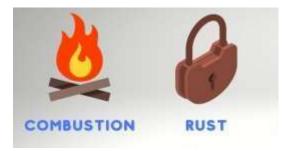
INSTRUCTIONS:

- This paper consists of **five** questions.
- Answer **all** questions in the spaces provided.
- Illustrations in form of drawings should be made where necessary, with a sharp pencil.

For official use only

Number	Score	Teacher's comment
1.		
2.		
3.		
4.		
5.		

1. (a) The figure below shows some examples of important chemical reactions in our daily life.



		(i) Briefly explain the meaning of the chemical reactions shown above (02 marks)					
	Combustion						
		••••••	•••••••••••••••••••••••••••••••••••••••	•••••••			
	Rust						
		•••••					
		(ii)	State one condition of each process to occur	(02 marks)			
		Combustion					
		Rust					
		(iii)	Write the chemical name and formula of rust	(02 marks)			
		•••••					
		(iv)	How are the above process similar to each other	(02 marks)			
		(v)	How can you prevent your metallic equipments from rusting	(02 marks)			
2.		roceed	ratory work scientists often separate mixtures into their respective with further investigations and analysis				
		(a) bri	efly what do you understand by the term mixture				

	(b) Sta (i) (ii) (iii (iv (v)	Water of Pigment () Iron fill () Sodium	and ethanols of green leaf ngs and sulphur carbonate and sodium	he following mixtureshydrogen carbonate			
	(c) Identify	y the compon	ent of air which can be	detected by	(03 marks)		
	(i) G	Blowing splint					
3.	state of matte	er is one of th	e distinct physical form	reight. Matter exists in di s in which matter exists. of matter. Use them and			
(9999999 9399999 9399999			
	T		Χ	Z			
	(a) Name	the states of	matter		(1.5 marks)		
	(i)	•		••••••			
	(ii	•		•••••			
	·	(iii) Z					
		the change o hat change	f state from Z to T and	give two examples of su	bstances that (1.5 marks)		
	Change	• • • • • • • • • • • • • • • • • • • •		••••••	•••••		
	Examples						
	(c) Gi		ple of mixtures of state Miscible	X that are	(01 mark)		
	•••••		mmiscible	•••••	••••••		
				highest rate of diffusion			

	(i) Brie	efly explain the meaning of the term diffusion	(01 marks)
	•••••		•••••
	• • • • • • •		• • • • • • • • • • • • • • • • • • • •
		entify the state of matter which has the highest rate of diffusion	(01 mark)
		ate two factors that affect diffusion	(02 marks)
	•••••		
	(iv)	State one example of a mixture of X and Z and state how it can	
			(01 mark)
	•••••		
home	she sa	Fiona a senior one student who always attends the chemistry lesson was corroded plastic cup, tablets in a packet, a bare copper wire cith soap, alcohol, cosmetics and sprays.	
	a classn t above	nate to Anyige Fiona, what is the use of each of the following substc e?	nces talked (3.5 marks)
	•••••		
	•••••		
	•••••		
	•••••		
	•••••		
	•••••		
ii) Sto	ate wha	at Anyige Fiona saw at home is composed of	
		as a science looks at the structure, composition and characteristics o	
	-	ou as a young scientist can follow to understand the science of chemis	
	•••••		•••••
	•••••		••••••
	•••••		
	•••••		•••••
	•••••		•••••
	•••••		••••••
	•••••		•••••
	•••••		
(c) G	ive one	example of	(01 mark)

(i) Physic	al change	•••••	• • • • • • • • • • • • • • • • • • • •				
(ii) chemical change							
5. The figure below shows an experimental setup used to obtain pure water in the laboratory (a) label the apparatus on the diagram (02 marks)							
D gure wider							
(b) Give the use of each apparatus you have named in (a) (02 marks)							
	•••••	•••••	•••••	•••••	•••••	•••••	
(c) What name is given to the above process				(C	11 mark)		
(d) What is a flame ? suggest the best type of flame recommended for laboratory use and give one reason (02 marks)							
			• • • • • • • • • • • • • • • • • • • •				
(e) Write dov	vn the symbols	of the following	ng elements		(C	3 marks)	
Element	Bromine	Silver	Potassium	Nitrogen	Aluminium	Silcon	
Symbol							