	Class	stream
NameSigna	ture	•••••
545/1		
CHEMISTRY		
(Theory Paper1)		
1Hour 30 minutes		

Uganda Certificate of Education

END OF YEAR EXAMINATIONS 2022

C.B.C CHEMISTRY

(THEORY)

Paper 1

1hour 30 minutes

Instructions to Students

- Attempt all questions provided in this paper. Answer to be written in ball ink pen in the spaces provided.
- Any answer sheets inserted in this question paper will not be marked.

For Examiner Use Only

Question	Score
1	
2	
3	
4	
Total score	

a) D	efine	the term "Matter".		[2marks]
 	 olide k	ave a fixed volume and a	a definite shape	
		ave no fixed volume and	-	ne container
		e the volume and shape of		[1mark
		······	•••••	
e) C	Complete the table below to show the number of particles, arrangement and			
m	novem	ent of particles in each pl	nysical state.	[6marks
S	tate	Separation of	Arrangement of	Movement of
	11.1	particles	particles	particles
S	olid			
lie	quid	Touching one another	Randomly arranged	Move over one another
G	as			
 N (l	lame tl	he following changes of s	lstate.	
(i		ce turning into water	, , , , , , , , , , , , , , , , , , , 	
(-		<u>-</u>		[1mark
(i	i) S	olid carbon dioxide turni		-
	,	oom temperature.	8 J 8	[1mark
	•	•		-
(i	ii) C	Cloudy rain turning into h	ailstones.	[1mark
e) M	 Iatter o	can exist as solid, liquid	or gas. The arrows show	w some changes of
st	ate.	5		
		7 4	solid	
		-		

	i)	Name the changes of state represer	it on the diagram.	[3marks]
		A B	C	
	ii) Explain why energy has to be supplied to turn a liquid into a gas			a gas.
				[2marks]
f)	The	e diagrams below represent the same n		
	containers D and E , which have different volumes. The two containers were			
	pla	ced at the same temperature.		
		D E		
	In	which of the two containers will the pr	essure be higher? Explai	n vour
		wer.		[2marks]

1	chai peri	ne science natural world, are substance ages or added to water may undergo clument changes. Distinguish between temporary changes.	hanges, which are either	temporary or
•				
1		i) The following investigations were cone of their study findings about the ab	•	•
	S	Study and complete the table below.		[4marks]
	I	nvestigations	Type of change	
	I	Heating and cooling of zinc oxide		
		Heating and cooling copper (II) carbonate.		

	Passing a magnet through a mixture of iron fillings and sulphur		
	Burning of ethanol in a lamp		
(;;) Suggest an explanation why you chose th	a type of changes stated in (h)	(i)
) Suggest an explanation why you chose th ove.		2marks]
uo		L	-11141 13 5]
			• • • • • • • •
			• • • • • • • •
•••	••••••	•••••	•••••
3.	Process of recycling polymers depends on	•	either
ر م	biodegradable materials or non – biodeg		. nl za]
a)	What do you understand by the term "poly	ymer"? [2ma	rksj
			•••••
			• • • • • • • • • • • • • • • • • • • •
b)	Classify the following materials as biodeg	gradable and non-biodegradab	le by
	completing the table below.	[6m	narks]
		able or Non – biodegradable	
	Plastics		
	Cotton		
	Nylon		
4	Ceramics are made mainly from clays, or	 ne of the natural chemical con	nounds
••	a) Identify the major components in clays		-
	, J J J		
		[2marks _j
	b) Outline two main properties of clays the	nat make it a suitable compour	nd for
	making ceramics.	[2	2marks]
			• • • • • • • •
			• • • • • • • • • • • • • • • • • • • •