Student's		
Name:	Stream:	•••••
CHEMISTRY		
(Theory) July, 2022 2 hours		
2 hours		

Uganda Certificate of Education

S.1 COMPETENCE BASED ASSESSMENT EXAMINATIONS

CHEMISTRY (THEORY)
2 hours

INSTRUCTIONS:

- This paper consists of eight 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
<i>1</i> .		
2.		
3.		
4.		
5.		
7.		
8.		

	Chemistry experiments should b room. Give two reasons for this.	e carried out in t	the laboratory not in the (02marks)
• • • • • •			
(b) 1	Name the following apparatus an i	n each case, stat	e the use of each.
			(04 marks)
	Apparatus	Name	Use
	Lindightunghund		
	250		
	The study of Chemistry involves the ence of facts about the knowledge	_	
	eps as listed below.		
	ervation, data analysis, data colle		
	lem identification and formulati	ion of a hypothe	
in the	e correct order.		(01 mark)

2 (a) State two differences between a temporary and permanent change.

(02 marks)

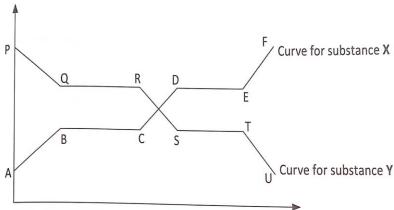
	Temporary change	permanent change
-		
-		
(b)	Write true or false for each of the following st	catements. (01 mark @)
((i) Boiling an egg is a temporary change	•••••
((ii) Sublimation of iodine is a permanent change	2
((iii) Burning wood is a permanent change	••••••
((iv) Souring of porridge is a temporary change.	••••••
th ga	Senior one students went to the laboratory and the smell of the laboratory gas. They later discover as tap at the corner of the laboratory had been less (a) Using kinetic theory of matter, explain w	ered that the smell was because one eft open.
	parts of the laboratory.	(02 marks)
(b) What is the name of the process by which the	he gas spread to all parts of the
	laboratory.	(01 mark)
	•	
(c) Different states of matter undergo melting	and freezing processes. State the
	difference and similarity of the two processes	(02 marks)

	(d)	Which of the two processes;	
	(i)	Absorbs heat?	(01mark)
	(ii)	releases heat?	(01 mark)
4.		the particle theory of matter, all ma	ter is made up of small particles that are in a up of senior one students from vision for Africa
	High	school carried out an investigation a	oout particles of air using a balloon. They
	inflat	ted it as shown below;	
	(a)	Explain how the particles of air inst	de the balloon create pressure to make it swel
	outw	-	(02 marks)
			``````````
	that t	he balloon increased in size. How can y of matter?	der sunshine for some hours, it was observed you explain this observation using the particle (03 marks)
	• • • • •		
	••••		
	obser		oratory for seven days, after which they size. Give an explanation as to why the (03 marks)
	•••••		
	••••		
	•••••		
	• • • • •		

(d). Give any two differences in the arrangement and behavior of particles in solids and in gases. (02 marks)

Particles in solids	Particles in gases

**5.** The figure below shows the heating and cooling curves for substances X and Y. Study it and answer the questions that follow.



	A	Curve for substance Y	
(a)	What was the original state of su		(02 marks)
( <b>b</b> )	Explain the shape of the curve fo	or substance X between ea	nch of the
	(i) A and B		(02 marks)
••••			
	(ii) B and C		(02 marks)
(c) E	Explain the shape of the curve for su  (i) Q and R		ollowing parts. ( <b>02 marks</b> )

(ii) S and T	(02 marks)
6. (a) What is the difference between	veen natural and synthetic materials? (02 marks)
•	nterials into <b>either natural or synthetic</b> . s, starch, polyvinylchloride, wool, plastic, sisal, (05 marks)
Natural	Synthetic
	ces with the right word from the box (06 marks), monomer, polymers, cellulose
	is flexible, melts from one shape to another.
(b)compressed but weak when	is hard, opaque, strong when n stretched.
	is strong, hard and can ctor of heat and electricity.
<b>d</b> ) A to	is formed by repeatedly joining many ogether.
(e)up of long, strong and thre	is flexible, and is made adlike chains.

8.	To prevent environmental pollution, some countries have adopted recycling, reusing and reducing as their strategies.  (a) What is meant by the term recycling? (02 marks)
<b>(b)</b>	Explain, giving <b>one</b> example in each case, how recycling, reusing and reducing prevents environmental pollution in Uganda. ( <b>06 marks</b> )
•••••	
•••••	
•••••	

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