NAME:	SIGN:			
525/1				
Chemistry				
Paper 1				
2 hours				

UGANDA CERTIFICATE OF LOWER SECOBDARY EDUCATION

END OF TERM II EXAMINATION 2023

CHEMISTRY

Paper 1

2 Hours

INSTRUCTIONS:

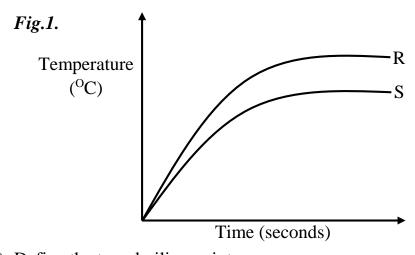
- This paper has *two* (2) sections A and B.
- Attempt all questions in section A and any two (2) from section B.
- Answers to questions in section A should be written in the spaces provided
- Answers to questions in section B must be written on answer sheets provided.
- Use a neat handwriting to avoid loss of marks.

FOR EXAMINER USE ONLY

SECTION A				SECTI	ON B	TOTAL			
1	2	3	4	5	6	7	No.	No.	

SECTION A

1. *Fig.1.* shows two the boiling curves of pure water and an aqueous solution of sodium chloride over a given range of time. One of the curves is represents by R and another by S. Use it to answer questions that follow.



a) Define the term b	ooiling point.	(02marks)

b) Which curve represents water and an aqueous solution of sodium chloride? Explain your answer. (05marks)

For water	
Reason	
For sodium chloride	

Reason

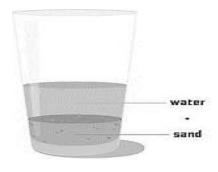
c) State two other factor that affects the boiling point of a liquid. (02marks)

d) State one other method used to determine the criteria of purity of a liquid other than boiling point and melting point. (01mark)

2. Fig.2. shows two substances A and B that are commonly used in our daily life.

Fig.2.



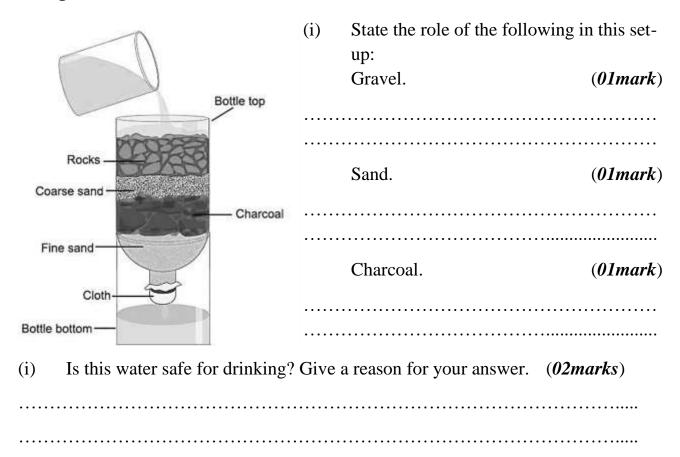


A	В	
a) Identify the above substances.		(02marks)
A	B	
b) Mention any two properties of:(i) A		(02marks)
(ii) B		
c) Suggest examples of:		
(i) Naturally occurring mixtures.		(01mark)
(ii) Artificial mixtures.		(01mark)
d) How are metals important in our da	aily life.	(04marks)

3. During the separation of components of air, carbon dioxide is first remove from air before liquefaction of the remaining air.			
	a) (i) How is carbon dioxide removed from air?	(02marks)	
		• • • • • • • • • • • • • • • • • • • •	
	(ii) Why is carbon dioxide removed before liquefaction of air?		
	b) (i) Name the physical process used to separate oxygen from liqu		
		(01mark)	
•••	(ii) Why is it possible to use the process named in b) (i) above.	(01mark)	
	c) State the role of different components of air.	(05marks)	
 4.	a) (i) What is meant by the term water pollution?	(01mark)	
•••	(ii) Some power stations use river water for cooling and dump it b river still hot. Explain how this affects the river.		

b) Fig.3. setup was used to obtain clean water from muddy water at home. Gravel, sand and charcoal were firmly packed.

Fig.3.



5. Fig. 4. Shows different materials that are used in our daily life. Use them to answer questions that follow.

Fig. 4.













a) Nam	e the above materials from K	(03marks)	
K		L	
M		N	
O		P	
(i)	n fig.4, list down the material Naturally occurring.		$(1^{1}/_{2}marks)$
(ii)	Artificially occurring.		$(1^{1}/_{2}marks)$
c) State	the role of the above materia	als to man.	(04marks)
•••••			

6. *Fig.*5. shows the different physical changes that occur in different states of matter. Use the figures to answer questions that follow. *Fig.*5.







P

Q Onyanga ismail R **0702791830**

a)	(i) Which physical change occurs in each case? P	(03marks)
•••		(02marks)
 b)	State the main conditions that affect the above changes.	(02marks)
c)	Discuss the application of temporary and permanent changes in our	daily life. (03marks)
•••		
7.	Fig.6. shows an experimental setup in the laboratory used to separar mixtures in to their components. Read it carefully and use it to answ that follow. Thermometer	
	Alcohol and water Glass beads Tapwater IN Cork	
	a) (i) Identify the name of the above method used in separation of i	mixtures. (<i>01mark</i>)
•••	(ii) Name the parts labelled Q, Z and P.	(03marks)

•	te mixtures. (04marks)
c) How is the above method used in our daily life? SECTION B 8. a) Iron is the commonly used metal. Give the properties	
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SECTION B 8. a) Iron is the commonly used metal. Give the properties	(02marks)
SECTION B 8. a) Iron is the commonly used metal. Give the properties	
8. a) Iron is the commonly used metal. Give the properties	
8. a) Iron is the commonly used metal. Give the properties	
•	
	of iron which make it
suitable for its as:	(02
(i) Roofing materials(ii) School bell	(02marks) (01mark)
(iii) Cloth hanger.	(01mark)
b) Apart from the above functions, given any other uses	· · · · · · · · · · · · · · · · · · ·
c) In which ways is iron weakened from performing its	
9. a) Discuss the importance of common salts in our daily	lives (06marks)
b) Common salt from <i>Lake Katwe</i> is obtained by fraction	
Explain the term;	•
(i) Fractional crystallization	(02marks)
(ii) Crystal	(01mark)
c) Describe what happens during fractional crystallizati	
d) Identify two crystalline substances at home.	(02marks)
10. a) Mention any four Earth resources you know.	(02marks)
b) State one function of each resource.	(04marks)
c) How are the above resources misused by man?	(O-Hitalics)
d) In which ways can we preserve the Earth resources?	(05marks)