Name: S	tream
Signature:	
545/2 Chemistry Paper 2 Hours 15Minutes	
STANDARD HIGH SCHOOL - ZEEND OF TERM 1 EXAMINATIONS, 2 S.2 CHEMISTRY TIME: 2HOURS 15MINUTES	·
INSTRUCTIONS	
<ul> <li>Answer all questions in section A plus any two in sec</li> <li>Symbols must be written correctly.</li> <li>Forward scanned answer sheets to stahiza2020</li> </ul>	
SECTION A	
1. (a) What are immiscible liquids?	(01marks)
The results of a paper chromatography are shown in the <b>B</b> are different mixtures of some of the pure substances	_
<ul><li>(b) Identify the substances in the</li><li>i. Mixture A</li></ul>	(01mark)
ii. Mixture B	(01mark)

	(c) Which substances are present in both mixtures?	(01mark)
	(b) Which substances are present in mixture <b>R</b> only?	(01mark)
2	(a) A crystal of potassium permanganate was placed at the corner of water as shown in the figure below and the experiment was allost stand for about 30 minutes.	in a trough
	(i) State what was observed after 30minutes.	
	(ii) Name the process that occurred.	(01mark)
	(b) Name any 2 factors that may attack the process named in a (ii)	above. (02marks)
3.	(a) Define the term a flame.	(01mark)
	(b) Name the apparatus used for measuring a fixed volume of liqu	ids. (01mark)

	(c) State the differences between luminous flames and non-luminous flames are also for the flames and non-luminous flames are also flames and non-luminous flames are also flames and also flames are also fla	(03marks)
		•••••
4.	Define each of the following (i) physical change	(0 ½ mark)
	(ii) chemical change	(0 ½ mark)
	(b) List any 2 examples of chemical change.	(01mark)
	(c) State the differences between physical and chemical changes.	(03marks)
5.	(a) Write the chemical symbol of the following elements. (0 ½ n (i)Magnesium	• • • • • • • • • • • • • • • • • • • •
	(iii) Aluminium	
	(iv) Sodium	
	(v) Lead	
	(b) Name the element present in the following compounds. (0 ½ r	
	(i) Spdium oxide.	
	(ii) Amonia.	
	(iii) Magnesium chloride.	
	(iv) Calcium chloride	

(b) Write tl	ne chemical name	e and chemical fo	rmula of rust.	
• •	al name of rust.			(01mark)
(ii) Chemic	cal formula of rus	st.		(01mark)
(c) Give 2	methods of preve			(02marks)
(a) An atom M contains 13 protons and 14 neutrons. State the; (01 ½ marks) (i) Atomic number of M.				
				•••••
(ii) number	of electrons in N	VI.		
•••••				
	nine the atomic n	nass of M.		
(iii) Detern	nine the atomic n			
(iii) Detern	nine the atomic n	nass of M.		
(iii) Detern	nine the atomic n	nass of M.		
(iii) Detern	nine the atomic n	nass of M.		
(iii) Determ (b) Copy and Atom	nine the atomic nondecomplete the formula in the atomic nondecomplete in the atomic nondec	following table.  Neutrons  18		
(iii) Determ	nine the atomic n	following table.		
(iii) Determ (b) Copy and Atom	nine the atomic nondecomplete the formula in the atomic nondecomplete in the atomic nondec	following table.  Neutrons  18		
(iii) Determ (b) Copy and Atom P	nine the atomic nondecomplete the formula in the atomic nondecomplete in the atomic nondec	following table.  Neutrons  18	Electrons	
(iii) Determ (b) Copy and Atom P	nine the atomic nondecomplete the formula in the atomic nondecomplete in the atomic nondec	following table.  Neutrons  18	Electrons	

8.	Lead (II) oxide				
	Aluminium oxide	your answer) (01mark)			
	(ii) Alkalis (bases) only.	(01mark)			
	(iii) Both acids and alkalis.	(01mark)			
9.	(a) Name any 2 substances used to prepare oxygen.	(02marks)			
	(b) State how oxygen is tested in the laboratory.	(01mark)			
	(c) Outline any 4 disadvantages of rusting.	(02marks)			
10	0.(a) Define the term hard water.	(01mark)			
	(b) (i) Name two ions responsible for hardness in water.	(01mark)			
		• • • • • • • • • • • • • • • • • • • •			

(11) State any four (4) ways how hardness can be remove	(02marks)
(c) Outline any 2 advantages of hard water.	(01mark)
SECTION B	
11.(a) (i) Draw a well labeled diagram for preparation of d	
laboratory.	(06marks)
(ii) Write the equation for the reaction.	(1½ marks)
(iii) Name the catalyst used in preparation of hydrog	gen in (i) above.
	(01mark)
(b) Hydrogen was reacted with copper (II) oxide in a co	ombustion tube.
(i) State the conditions for the reaction.	(01mark)
(ii) State what was observed.	(01mark)
(iii) Write the equation for the reaction.	(1½ marks)
(c) Describe how hydrogen is tested in the laboratory.	(01mark)
(d) State any 2 uses of hydrogen.	(01mark)
(e) State two ways you can use to show that water is a continuous	compound of
hydrogen.	(01mark)
12.(a) What is meant by the following terms?	(02marks each)
(i) Amphoteric oxides	
(ii) Acidic oxides	
(iii) Neutral oxides	
(iv) Basic oxide	
(v) Electrochemical series.	
(b) State what is observed when the following metals as	re burnt in oxygen.
(i) Sodium	(02 marks)
(ii) Calcium	(01½ marks)
(c) Write the equation for the reaction which occur who	,
above is dissolved in water.	(01½ marks)

## **END**