

Name:	Adm No
	Signature:
CHEMISTRY	
THEORY	Date:
TERM 3 2017	
TIME: 2 HOURS	

2017

FORM 1

Chemistry

2 hours

INSTRUCTIONS TO CANDIDATES

- Write your name and admission number in the spaces provided.
- Mathematical tables and non-programmable calculators may be used.
- Attempt all the questions in the spaces provided.
- ALLOW working MUST be clearly shown.

For E xami ne r's Use

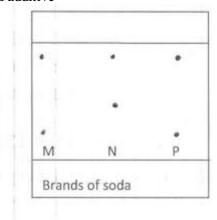
QUESTION	MAXIMUM SCORE	STUDENT'S SCORE
1 - 15	70	

This question paper has 9 printed pages. Check to ascertain that all pages are printed as indicated and that no question is missing.

the question which follows;



1. The spots in the diagram below represents a paper chromatogram fort three brands of Soda suspected to contain unwanted food additive

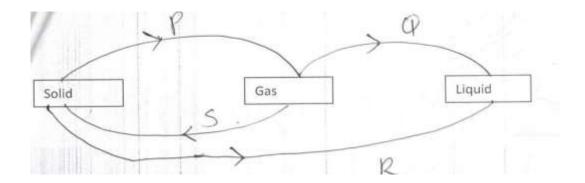


The results showed the presence of unwanted food addictive in n and p only. On the diagram	ram:
a) Circle the spots which show unwanted food additive	(2mks)
b) Label the solvent front and the base line of the diagram	(2mks)
2. Sodium chloride is contaminated with copper (ii) oxide. Explain how pure sodium	chloride can be
obtained from the mixture	(3mks)

3.The diagram below shows the relationship between the physical states of matter . Study it and answer

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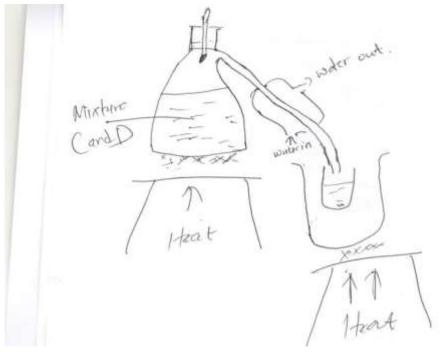






a) Identify the process PQRS	(4mks)
b) Name two substances that undergo the process P and S	(2mks)
4. State and explain the changes in mass that occur when the following are heated separately	in open
crucibles	
a) Zinc metal	
	•••••
b) zinc carbonate	
5. the set up below represents the apparatus that may be used to separate a mixture of two miscibles and D, whose boiling points are 80°C and 110°C respectively.	le liquids





i) Label C	(1mk)
ii. What is the purpose of the thermometer	(1mk)
iii. Which liquid was collected first? Explain	(2mks)
6. Draw and name the apparatus you would use in the separation of kerosene and water	(2mks)



7. Name the elements	present in the follo	owing compound
(10mks)		



a)	Sodium Bromid	le			
b)	Zinc Sulphide				
c)	Lead Oxide				
d)	Magnesium Nitr	ride			
e)	Potassium Iodid	e			
8. Com	plete the table be	low			
			(6mks)		
Elemer	nt	Symbol			
Carbon	l				
		N			
Oxygei	n				
		Н			
copper				<u> </u> -	
		Mg			
9. Expl	ain why most lab	oratory apparatu	as are made up of	glass	(4mks)

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10. A non luminous flame is preferred for heating give two reasons and explain.	(4mks)



11. The graph l	below shows tha	shape of the cur	ve obtained by	a student who	en solid x was heated to
	1				
	50				
	40	0	/s		
	30	4			
	20		12		
	10				
	P				
	Time	in minutes	—	,	
	e melting point o		S represent in	each case give	the physical state of the (9mks)
12. Name three	frequently abuse	drugs			(3mks)

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13. What will you do immediately if a chemical gets on your skin?	(2mks)	
14. State three safety rules in the laboratory	(3mks)	
15. The following diagram represents a non-luminous flame of the Bunsen burner		
A B C		
a) Name the parts of the flame labelled A,B and C	(3mks)	
A		
В		
C		
b) Which part in a) above is the hottest? Explain	(2mks)	