GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.

FORM 1 CHEMISTRY MID TERM EXAMINATION. TERM 2 2015.

NAME: CLASS	: ADM. NO.
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INSTRUCTIONS:

2a)

laboratory.

- 1. Time 11/2 hours
- 2. Write your name, admission number and class in spaces provided.
- 3. Answer all the questions in the spaces provided below each questions.
- 1. List three importance of the study of chemistry. (3mks

		name _e	d	
b)	The diagram below repres	sents a Bunsen burn er. Labe l	the parts X, Y, Z	
х		D 72		(3mks
Υ		0		•
Z		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
ii) Air hole	What is the function of	—×	(1mk	
Collar			(1mk	

List two apparatus / equipment used to measure the mass of chemical substances in the

1

(2mks

II)	
	\$
1)	

3. The table below shows reacts that were obtained when ice was heated in a beaker using a spirit burner. The temperature was recorded at intervals of 30 seconds.

Time (minutes)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
Temperature (°C)	-4.0°C	-3.0°C	0.0°C	0.0°C	1.0°C	2.0°C	2.5°C	3.0°C	3.5°C

a) Using a graph paper provided draw a graph of temperature (°C) against time in minutes (4mks)

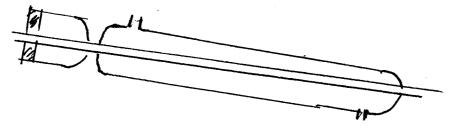
b) Account for the shape of the graph between 10 minute and 1.5 minutes (2mks)

redict the boiling point of water in this expe	eriment. (2mks)		
		-	
What instrument was used to measure ten	perature of ice? (1	mk)	
		·	
	61-	e to liquid water and	then
Explain using the KINETIC THEORY OF MAT	TER the change of ic	8 to lidaia mass	
ater vapour. (steam) (4mk	•		
ate. Vaposis (
in What is the nae given to that change fro	m solid to gas (1mk)	·	
14 AALIGE 12 CLE 14		4.5	
b) Name any three substances that underg	o the above change	when heated. (3mks)
b) Name any three substances that under a			
	41.00		
			en to
c) When a solid substance dissolves in a lie	quis, It is called a solu	ute. What hame is an	
I) Liquid that does the dissolving (1mk)			
		1	
	•		
·			

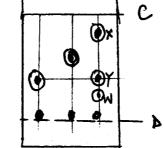
c)

ii) The homogeneous mixture obtained? (1mk)

The diagram below represent an apparatus used in distillation.



- a) What is the name of the apparatus? (1mk)
- b) Use arrows to show movement of water into and out of the apparatus. (1mk)
- 7. Spots of pure pigments A and B and a mixture 2 were placed on a filter paper and allowed to dry. The paper was then dipped in a solvent. The results obtained as on the paper chrismatogram.



- a) Which is the Base line? (1mk)
- b) Solvent front ? (1mk)

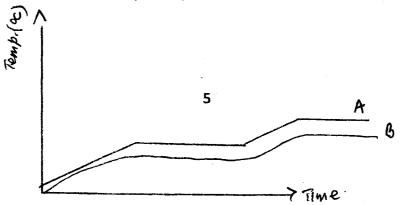
Explain (2mks)

c) i) Name a solvent that is used in a paper chromatography (1mk)

ii) Why is water not a suitable solvent in paper chromatography. (1mk)

8. Explain how you would obtain pure ammonium chloride from a mixture of lead sulphate and ammonium chloride. (5mks)

9. The curve below represent the variation of temperature with time when pure and impure samples of a solid were heated separately.



a) Which curve show the variation in temperature for the pure solid?

(1mk

ii) Explain

(1mk

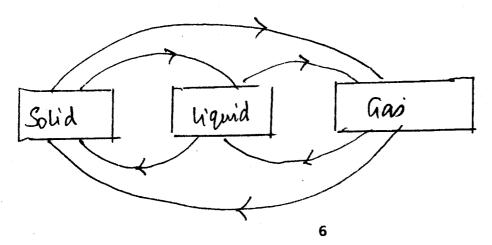
- b) State the effect of an impurity on the melting and boiling points of a pure substance.
- i) melting

(1mk

b) boiling

(1MK

10. The diagram below shows the relationship between the physical states of matter. Study it and answer the questions that follow.



identify the process	(2mks
R	
V	
w	
U	

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