NAME	CLS	C.NO	ADM	

\\ + \
NYABURURU GIRLS' NATIONAL SCHOOL
OUR LADY OF LOURDES

DATE DONE
INVIGILATOR
II WIGILAT OK
DATE RETURNED.
DATE REVISED
DATE REVISED

CHEMISTRY CAT I
CAT 1 TERM 3 2017
FORM ONE
TIME: 2 HOURS

INSTRUCTIONS.

- Write your name, class, class number and admission number in the spaces provided above.
- Answer **ALL** questions in the spaces provided.

FOR EXAMINER'S USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1 - 14		
TOTAL SCORE		

 Define the following terms as used in Chemistry. Drug abuse 	(5mks)
(ii) Drug	
(iii) Laboratory	
(iv) Acid	
(v) Base	
Name three frequently abused drugs.	(3mks)
3. What is the role of the following parts during fractional distillation of a mix ethanol(i) Liebig's condenser.	(2mks) (1mk)
(ii) Fractionating column.	
(iii) Glass beads	
(iv) Why is it possible to separate ethanol from water?	(1mk)
(iv) State any two application of fractional distillation process.	(2mks)

NAME......CLS......CLNO......ADM......

NAME	.CLSC.NO	ADM
4. State three reasons why most apparatus in the laboratory are	_	(3mks)
5. Give three examples of commercial indicators and state the basic solutions.	·	(6 mks)
6. The following diagram represents a non-luminous flame of t		••••••
(a) Name the parts of the flame labeled A,B and C.		(3 mks)
(b) Which of the parts in (a) above is the hottest?		(1mk)
(c) A luminous flame is preferred for heating. Explain.		(2mks)
(d) (i) Name the other type of flame produced by a Bunsen b		(1mk)

	oled through lime water. Iame; Compound P.	
acid	rilute sulphuric acid was added to a compound of magnesium P. The solid reacte to form a colourless solution Q and colourless gas R which formed a white preceded through lime water.	
8. Li	ist three differences between temporary and permanent changes.	(3Mks)
(e	Potassium hydroxide	
((c) Magnesium oxide	
(b	o) Calcium hydrogen carbonate	
follo	Vrite word equations for the reaction between dilute hydrochloric acid and each wing. a) Zinc metal.	of the (4mks)
	(ii) Under what conditions does the Bunsen burner produce the flame you have d(i)	(1mk)

NAME......CLS......C.NO......ADM......

10. Spots of pure pigments A, B and mixture of Z were placed on a filter paper and allowed to dry. The paper was then dipped in a solvent. The results obtained were as on the paper chromatogram.

(a) Which is the;

	(i)	Baseline	(1mk)
	(ii)	Solvent front	(1mk)
(b)	Whic	ch of the pure pigments was a component of Z? Explain.	(2mks)
(c)		ame a solvent that is used in paper chromatography.	(1mk)
		Why is water not a suitable solvent in paper chromatography?	(1mk)
(i) Ke	me the	e method by which the following mixtures could be separated. and water.	(3mks)
		um chloride and sodium chloride.	••••••
(iii) C	ommo	n salt and water.	
• • • • • • •	• • • • • • •		• • • • • • • • • • • • • • • • • • • •

12. Solutions may be classified as strongly basic, weakly basic, neutral, weakly acid, strongly acidic. The information below gives solutions and their pH values. Study it and answer the questions that follow.

Solution	pH vlaue
В	0.5
С	6
D	14.5

Classify the solutions in the table below using the stated classification.	(3mks)
13. State the chemical test for the presence of water.	(2 Mks)
14. Give any two examples of substance that undergoes sublimation.	(2 Mks)