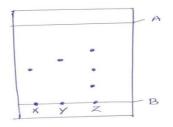
NAME:				
FORM ONE CHEMISTRY END OF YEAR EXAM – 2019 TIME: 1 ½ HOURS				
Answer all the questions in the spaces provided. 1. What is Chemistry? (1 mk)				
2. Girmks)	ve three advantages of studying Chemistry.		(3	
3. Girmks)	ve the functions of the following laboratory ap (i) Crucible –	pparatus.	(5	
	(ii) Desicator –			
	(iii) Dropping funnel –			
	(iv) Thistle funnel –			
	(v) Tongs -			
	efine the following terms:		(4	
mks)	(i) Drug –			
	(ii) Drug abuse –			
	(iii) Prescription –			
	(iv) Indicator –			
5. Give the differences between luminous flame and non-luminous flame. (5 mks)			(5	
	Luminous	Non-luminous		
	(i) (ii)			
	(iii)			

((iv)		
((v)		
6. (a) Explai	After use, a non-luminous flame should be pn. (2 mks)	put off or adjusted to a luminous fla	ame.
(b) mks)	State any 6 safety rules in the laboratory.		(6
7. Na	me three substances that undergo sublimation	n.	(3
mks)	C		`
	ve the methods that can be used to separate the	ne following mixtures:-	(3
mks)	(i) Iron filings and sulphur.		
	(ii) Sodium chloride and aluminium chloride	de.	
	(iii) Common salt and water		
9. (a) mk)	What is fractional distillation?		(1
(b) mks)	Give two applications of fractional distillati	ion.	(2
mixtur pl	ne diagram below shows a chromatogram ob re of Z were aced on an absorbent material and allowed to t and results		

obtained as shown below.



mks)	(a) Name A and B.	(2
mk)	(b) Which pure pigment was a component of Z.	(1
mks)	(c) What are the factors that determine the distance moved by the spots?	(2
mk)	(d) Why is water not used as a solvent?	(1
11. Gi	ive the names of the compounds formed by the following elements:	(3

- (a) Carbon and oxygen
- (b) Sodium and sulphur.
- (c) Sodium, carbon and oxygen.
- 12. Complete the following word equations:-

(4 mks)

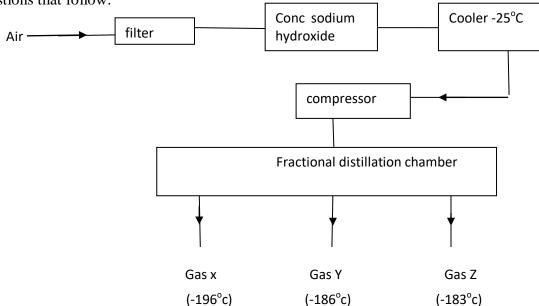
- (a) Sodium carbonate + dilute sulphuric acid
- (b) Sodium + water
- (c) Sodium hydrogen carbonate + dilute hydrochloric acid
- (d) Magnesium + Dilute hydrochloric acid
- 13. Give two differences between acids and bases.

(2 mks)

Acids	Bases
(a)	
(b)	

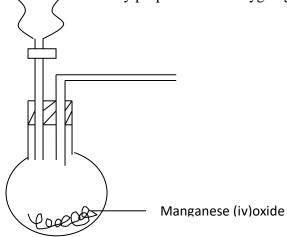
14. Give two uses of bases. (2 mks)

15. The diagram below shows the fractional distillation of liquefied air. Study it and answer the questions that follow.



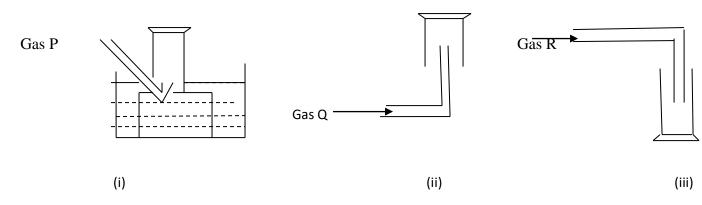
- a) Name the substances removed in the filtration chamber. (1mk)
- b) Name gases X, Y and Z. (3mks)

16. The diagram below show laboratory preparation of Oxygen gas.



a) Complete the gas to show how oxygen gas is collected. (2mks)

- b) Why is oxygen gas collected as shown above. (1mk)
- c) Write a word equation for the equation of the reaction occurring above. (1mk)
- d) Give 3 uses of oxygen gas. (3mks)
- 17. With the help of word equations identify the products of heating candle wax. (3mks)
- 18. Name the following methods of gas collection (3mks)



19. Give 2 uses of hydrogen gas. (2mks)