TAITIES	SG SCHEME ADM NO:
SCHOOL:	STREAM:
INDEX NO:	SIGNATURE:
233/1	2. A luminous flame produces more light that a non-rednous fl
233/1 CHEMISTRY	presence of instant y Carbon
CHEMISTRY	A luminous flame produces more light than a non-discancer flame produces for the control of the
CHEMISTRY	Prefer Ca. In Carbon V. Carbon

## MUSLIM SCHOOLS JOINT EXAMINATIONS TEST (MUSJET)

Kenya Certificate of Secondary Education CHEMISTRY – FORM 4

## INSTRUCTIONS TO CANDIDATES

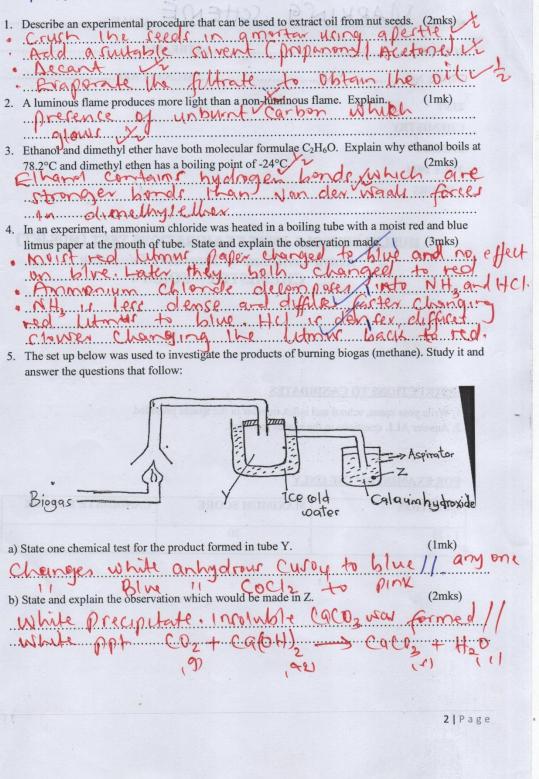
- 1. Write your name, school and index number in the spaces provided.
- 2. Answer ALL questions in the spaces provided.

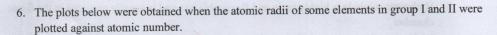
## FOR EXAMINERS' USE ONLY

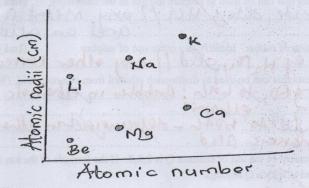
QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1 - 28	80	

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## MARKING SCHEME







a) Explain the trends shown by Li, Na and K.

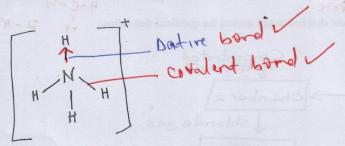
(1mk)

Atomic radii increase with increase in atomic

b) Explain why the atomic radius of elements Be, Mg and Ca are lower than those of Li, Na and K.(2mks)

Group (11) elements have more protons than group I elements hence this increases the nucleus attraction for the outer electrons

7. (a) Ammonium ion has the following structure



Label on the structure:

(i) Covalent bond

(1mk)

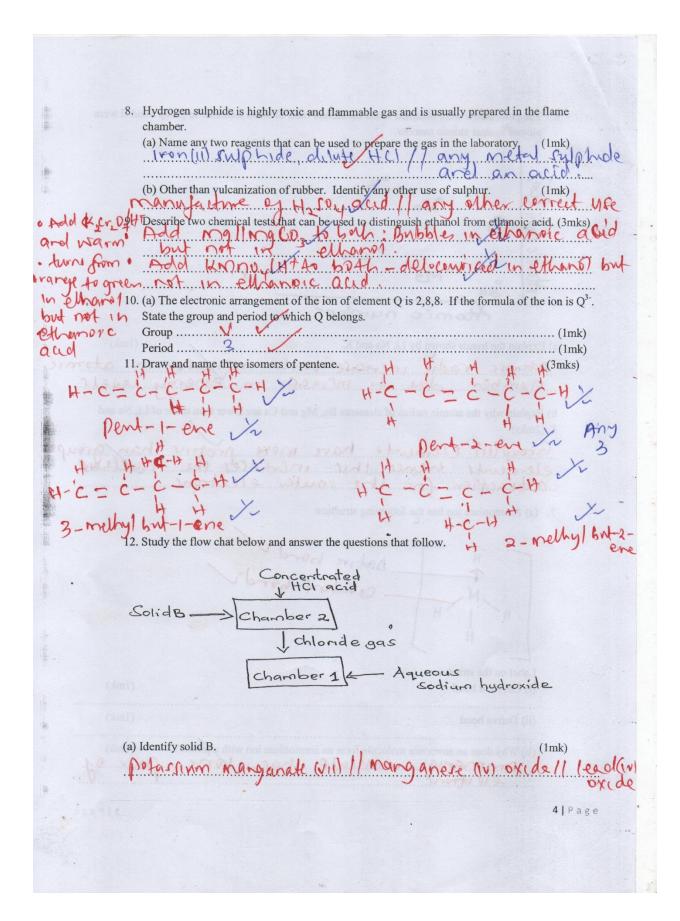
(ii) Dative bond

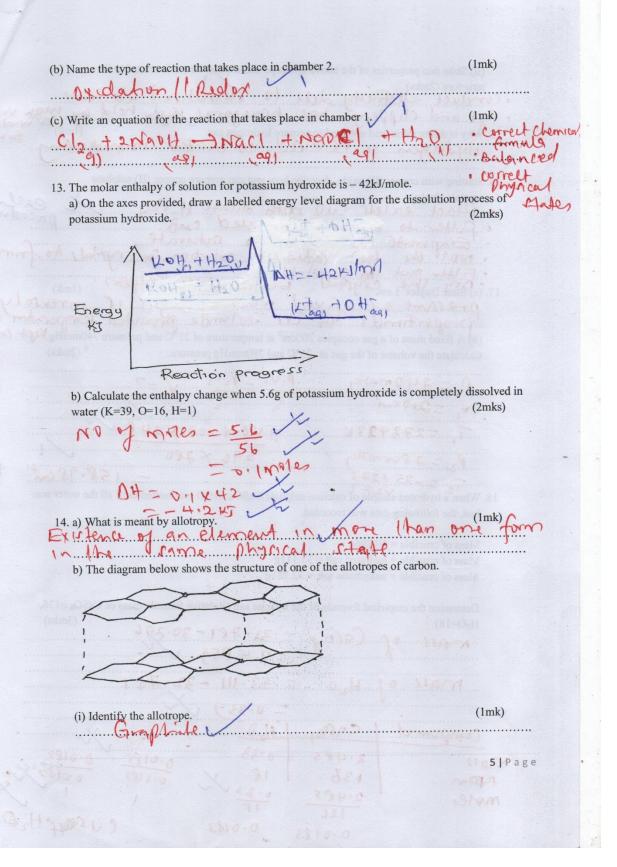
(1mk)

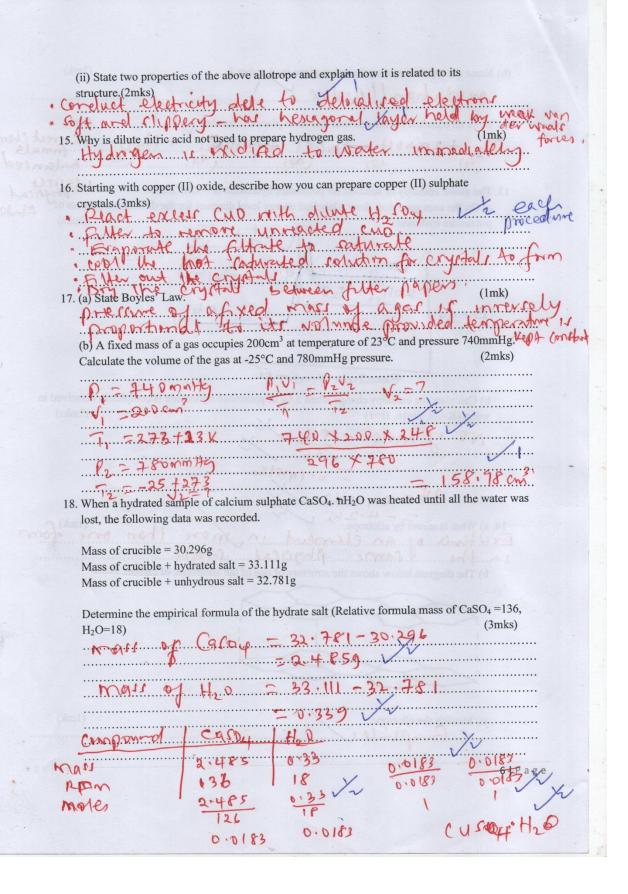
(b) Why does an ammonia molecule form an ammonium ion with a proton? (1mk)

Promong mylecule has the four of

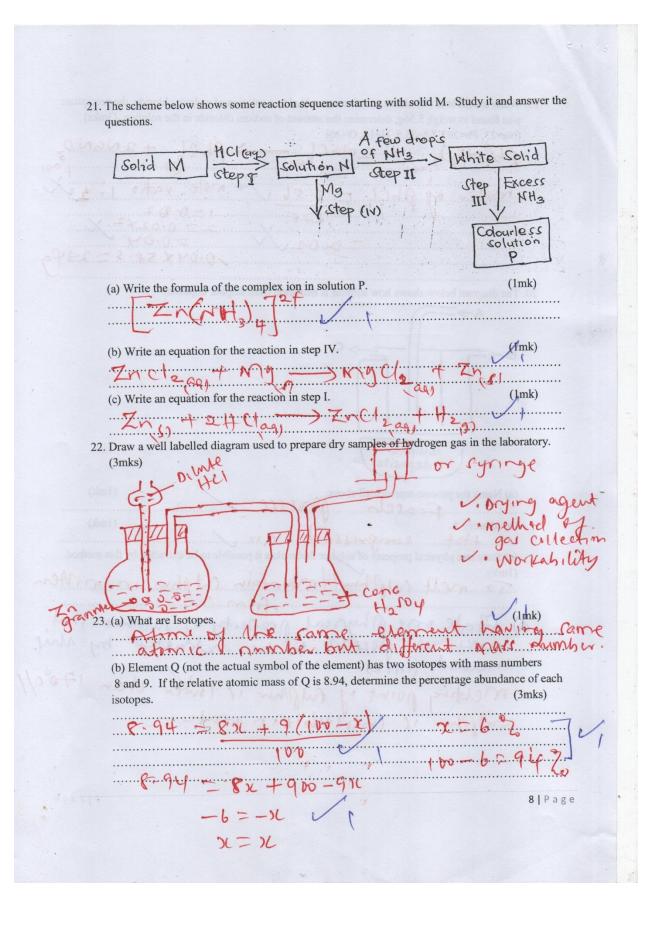
3 | Page







	Vas found to weigh 5.56g, determine the amount of sodium chloride in the solution. (3mks)  Na=23, Pb=207, Cl=35.5, N=14, O=16)  Photography 1
2030 HH3	moles of pholo 5:56 / mole vato 1:312 27 1-0.02 / 2-0.02
do:	19
20.	The diagram below shows how sulphur is extracted from sulphur deposits.  A →
	(b) Write an equation for the reaction in step (c)  (c) Write an equation for the reaction in step (c)
	Sulphur deposits
المنط	(a) Name the process represented above. (1mk)  (b) Identify A. (1mk)  (c) State one physical property of sulphur that makes it possible to be extracted by this method.  (1mk)  (1mk)
d	makes it possible to be extracted by this
3 (x) (x)	method (in k) mething point of fulphor is lower than 170°C/ sulphor is insoluble in water
	24-001



24. Aluminium is extracted from aluminium oxide by electrolysis.
(a) Other than the cost of electricity, give another reason why this method is expensive. (1mk)
Grannet and had be replaced fleriously
CINO LA
(b) Calculate the mass of aluminium obtained when a current of 20A is used for 5 hours (1
farudary=96500C, Al=27)
farudary=96500C, Al=27) $ \bigcirc $
= 0 = 0 50
1 24 81 500
25. (a) Name two ores of iron.  1.244 127 = 33.52mk)  25. (a) Name two ores of iron.  1.244 127 = 33.52mk)  1.244 127 = 33.52mk)
25. (a) Name two ores of iron. (1) 1.244 127 = 33.5(2mk)
Hagematite & Adertes
magnetite I and 2.
(b) Give the name of the suitable method used in extracting from from the ore.
fleduction
(c) Name one impurity present in pig iron and state one effect of the impurity in the physical
property of iron. (2mks)
Carbon Silven makes from brittle
26. The consentration of a solution of aluminium sulphate is 0.02M. How many sulphate ions are
contained in 150cm <sup>3</sup> of the solution. (3mks)
(Avogadros constant 6.0 x 10 <sup>23</sup> )
Males of Hickory
(Avogadros constant 6.0 x 10°)  (Avogadros constant 6.0 x 10°)
_ 0.003 1.2
miles of low = 0.003 x 2 =0.009 miles
20 0 10 10 0 0 0 0 1 10 XIV = 5. TXIV 10 10
27. At room temperature, nitrogen (iv) oxide exists as an equilibrium mixture with dinitrogen tetra
oxide.
$NO_{2(g)} \longrightarrow N_2O_{4(g)} \Delta H \text{ is -ve}$
(Brown) (Yellow)
State the observation made when the mixture is heated. Give a reason. (2mks)
Eaul man The to the tiff
28. Define solubility. (1mk)
THE END
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