

GREENLAWNS HIGH SCHOOL
CHEMISTRY TERMINAL EXAMINATION

STD 10C
40 MARKS

1 HOUR

Qs 1 A) Arrange the following in increasing order of what is mentioned in the bracket (3)

- i) Na, Li, Rb, K, Cs (Ionisation Potential)
- ii) Cl, F, Br, I (Electronegativity)
- iii) Atomic size (Na, S, P, Mg, Al, Si)

B) With respect to electrolysis of copper sulphate solution using platinum electrodes, answer the questions that follow (5)

- i) Write the dissociation reaction
- ii) Give the equations reactions taking place at cathode and anode
- iii) List 3 changes seen during the electrolysis
- iv) If instead of platinum electrodes are replaced with copper electrodes. list 2 other changes you would observe

C) Draw an electron dot diagram showing the formation of ammonium ion (2)

Qs 2A) Give an equation for the following conversions (5)

- i) A yellow element to an oxy acid
- ii) A non volatile acid to a volatile acid
- iii) A basic gas to an alkali
- iv) An oxide to a blue crystal salt
- v) A metal to an alkali

B) Give dissociation reactions for the following (2)

- i) Molten lead bromide
- ii) Acidified water

C) Identify whether the following contain a) only ions b) ions and molecules c) only molecules (3)

- i) sea water
- b) glucose
- c) acetic acid
- d) sodium hydroxide solution
- e) pure water
- f) Sulphuric acid

Qs 3A) With respect to electroplating with silver (5)

- i) Give an equation for the dissociation of the electrolyte
- ii) Give an equation for the reactions at the cathode and anode
- iii) Why is silver nitrate not used
- iv) List 2 conditions for electroplating

B) What would you observe when (3)

i) copper nitrate is heated

ii) Zinc carbonate is heated

iii) Ammonium hydroxide is added to copper sulphate solution

C) Give a chemical test to differentiate between (2)

i) Ferrous sulphate and ferric chloride

ii) Ammonium chloride and sodium chloride

Qs 4A) Define (4)

a) Ionisation Potential

b) Electrolysis

c) Salt

d) pH

Q) Identify the method of preparation for the following salts, also give an equation for each (6)

i) Blue vitriol

ii) Green vitriol

iv) Ferric chloride

v) Glaubers salt