GREENLAWNS HIGH SCHOOL

STD 10 CHEMISTRY PRELIM 1 60 MARKS

Answers to this paper must be written on the paper provided separately

Attempt all questions

Os 1

- a) Name the following (5)
- i) Compound used as a refrigerant
- ii) A charged particle
- iii) Smallest element in group IIA
- iv) Colour of copper hydroxide
- v) Residue formed when copper nitrate is heated
- b) Give the common name for the following compound (5)
- i) Hydrochloric acid
- ii)Ammonia
- iii)Sulphuric acid
- iv)Methane
- v)Nitric acid

Qs 2

- a) Give an equation for the laboratory preparation for the following compounds (3)
- i)Ammonia
- ii)Hydrogen chloride
- iii) Nitric acid
- b) With respect to the periodic table, answer the questions that follow(5)
- i) What are bridge elements?
- ii) Name the elements of period 2
- iii)Explain electronegativity
- iv)Name the element having 8 electrons in the 3rd shell
- v)Name the element in period 3group IIA
- c)Draw an electron dot diagram of an ammonium ion(2)

Qs 3

- a)Give reasons(5)
- i)Caustic soda is used to concentrate bauxite
- ii)During electroplating of an article the article is always kept at the cathode
- iii) The atomic size of elements decreases across a period
- iv) Metallic character increases as you go down a group IA
- v) Ammonia when dissolved in water conducts electricity
- b) Give chemical test to differentiate between the following(5)
- i)Manganese dioxide and copper oxide
- ii) Dilute and concentrated sulphuric acid
- iii) ethane and ethyne
- iv) ethane and ethane
- v)dilute and concentrated nitric acid

Qs 4

- a)Define (5)
- i)Catenation
- ii)ore
- iii)Basicity of an acid
- iv)Neutralization
- v)Ionisation potential
- b) Give one difference between (2)
- i)electrovalent and covalent compound
- ii)Atom and ion
- c) Give an equation to convert(3)
- i)methane to methyl chloride
- ii) ethene to ethane
- iii)ethyne to ethane

- a) Give an equation for the following catalytic reactions taking place in the large scale production of(2)
- i) Ammonia
- ii) Nitric acid
- b) Give equations for the dissociation reaction and the cathode and anode reactions for the following (8)
- i)sodium argento cyanide using silver electrodes
- ii)lead bromide using graphite electrodes
- iii)copper sulphate solution using copper electrodes
- iv)acidified water using copper electrodes

Qs 6

- a)Explain briefly(10)
- i)How is sulphuric acid diluted? Why?
- ii)How is hydrogen chloride converted into an acid? Why?
- iii) What is the basicity of acetic acid? Justify with the help of an equation.
- Iv) What is the aim of the fountain experiment with respect to ammonia?
- v)Why is aqua regia used in the purification of gold