## GREENLAWNS HIGH SCHOOL CHEMISTRY FINAL EXAMINATION

STD 9

40 MARKS

Qs 1

a) Name the following(5)

i)Temperature of oxy hydrogen flame

ii)Solubilty of hydrogen in water

iii) A covalent compound having 2 double covalent bonds

iv) A charged particle

v) The inert gas in period 3

b)Draw the electron dot diagram for the following(5)

I)methane

ii)Magnesium chloride

Qs 2

a) With respect to the periodic table, answer the questions that follow (5)

i) Name elements of period 3

ii) What are actinides

iii) Why does the size of atoms increase as you go down a group

iv) Why are elements of zero group non reactive

v) What are transition elements?

b) Give equations for the following reactions(3)

i) hydrogen and nitrogen

ii)hydrogen and oxygen

iii) hydrogen and chlorine

c)Find the volume of a gas at 200C, oif it occupies 400 ml at 27C.Pressure remaining constsnt(2)

Qs 3a With respect to the large scale production of hydrogen(5)

I)Give equations necessary for the preparation of hydrogen

II) Give equations to show how you would remove impurities present in the product formed

iii)Name the process

b) Give reasons(5)

i)Hydrogen is used in metereological balloons

ii)Gases expand on heating

iii)Electrovalent compounds can conduct electricity

iv)Covalent compounds have low melting point and boiling point

v)Hydrogen is used in the metallurgy industry

Qs 4

A)X and Y are atoms of elements(7)

i)identify the period and group they belong to

ii)Draw the electron dot diagram of the compound they form

iii)Give its formula

iv) Is the compound an ionic compound or covalent? Why?

v)Predict 2 properties of the compound with respect to density and state

B)A gas occupies 300 ml at -23C and 380mm of pressure, Find its volume at S.T.P.(3)