

Science 9 Test Ionic and Covalent Compounds Name: \_\_\_\_\_

1) Write the chemical name for the following Ionic Compounds (1 mark each)

a) BeS

b)  $\text{Cu}(\text{NO}_3)_2$

c)  $\text{Bi}_3(\text{PO}_4)_5$

d)  $\text{CaF}_2$

Bismuth (V) phosphate

e)  $\text{Cr}_2(\text{SO}_4)_3$

f)  $\text{Ni}(\text{OH})_2$

g)  $\text{K}_2\text{Cr}_2\text{O}_7$

h)  $\text{Pb}(\text{CO}_3)_2$

i)  $\text{K}_3\text{P}$

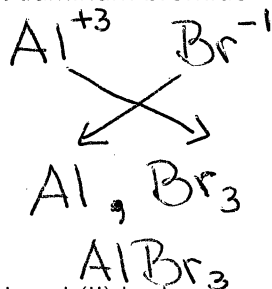
j)  $\text{NaHCO}_3$

2) Give formulas for the following Ionic Compounds (1 mark each) **Must show work**

a) Aluminum bromide

b) Barium Chloride

c) Titanium (IV) nitrite



d) Lead (II) hydrogen sulphate

e) Lithium hypochlorite

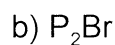
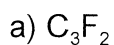
f) Sodium nitrate

g) Iron (III) bisulphate

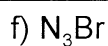
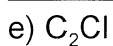
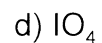
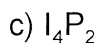
h) Chromium (III) sulphide

i) Nickel (II) sulphide

3) Write the chemical name for each of the following Covalent Compounds (1 mark each)



Tricarbon difluoride



4) Write the chemical formula for each of the following Covalent Compounds (1 mark each)

a) Chlorine dioxide

b) Selenium trioxide

c) Chlorine heptoxide



d) Selenium difluoride

e) Dinitrogen pentoxide

f) Dinitrogen monoxide

g) Arsenic pentachloride

h) Sulphur monochloride

i) Diphosphorus pentoxide

5) Answer the following questions (1 mark each) (full sentences)

a) Define / explain an ionic bond?

b) Define / explain a covalent bond ?

c) What is the difference between a multivalent metal ion and a polyatomic ion ?