Name:_____

Nomenclature Quiz #3 – SCH 4C

C^{4-}	carbide	CO_3^{2-}	carbonate
N^{3-}	nitride	NO_3^{1-}	nitrate
O^{2-}	oxide	PO_4^{3-}	phosphate
F^{1-}	fluoride	SO_4^{2-}	sulphate
P^{3-}	phosphide	ClO_3^{1-}	chlorate
S^{2-}	sulphide	OH^{1-}	hydroxide
Cl^{1-}	chloride	CN^{1-}	cyanide
As^{3-}	arsenide		
Se^{2-}	selenide	NH_4^{1+}	ammonium
Br^{1-}	bromide		
Sb^{3-}	antimonide		
Te^{2-}	telluride		
I^{1-}	iodide		

1. Simple monovalent cation (only one oxidation state), elemental anion (ends in ide)

a) $NaCl$ sodium chloride

b) Ba_3N_2 barium nitride

c) K_2S potassium sulphide

d) Na_3P sodium phosphide

e) $CaCl_2$ calcium chloride

f) potassium nitride K_3N

g) sodium sulphide Na_2S

h) potassium oxide K_2O

i) zinc nitride Zn_3N_2

j) cadmium chloride $CdCl_2$

2. Polyvalent Cation (more than one possible oxidation state), elemental anion.

1	2	3	4	5	6	7	8	9	10
I	II	III	IV	V	VI	VII	VIII	IX	X

a) arsenic(III) oxide As_2O_3

b) arsenic(V) oxide As_2O_5

c) lead(II) sulphide PbS

d) lead(IV) sulphide PbS_2

e) bismuth(V) nitride Bi_3N_5

f) $CuCl_2$ copper(II) chloride

g) Sb_2O_5 antimony(V) oxide

h) NiO nickel(II) oxide

i) Fe_2O_3 iron(III) oxide

j) Mn_3N_4 manganese(IV) nitride

3. Simple monovalent cation with polyatomic anions.

a) sodium hydroxide NaOH

b) calcium cyanide $Ca(CN)_2$

c) zinc sulphate $ZnSO_4$

d) scandium nitrate $Sc(NO_3)_3$

e) aluminum sulphate $Al_2(SO_4)_3$

f) Na_2CO_3 sodium carbonate

g) $(NH_4)_2SO_4$ ammonium sulphate

h) Na_2CO_3 sodium carbonate

i) $AlPO_4$ aluminum phosphate

j) $Ca(OH)_2$ calcium hydroxide

4. Polyvalent cation with polyatomic ion.

a) carbon(IV) chlorate $C(ClO_3)_4$

b) iron(II) phosphate $Fe_3(PO_4)_2$

c) gold(III) sulphate $Au_2(SO_4)_3$

d) copper(II) sulphate $CuSO_4$

e) copper(I) carbonate Cu_2CO_3

f) $Pb(NO_3)_4$ lead(IV) nitrate

g) $Co_2(SO_4)_3$ cobalt(III) sulphate

h) $Pb_3(PO_4)_4$ lead(IV) phosphate

i) $Pb(CO_3)_2$ lead(IV) carbonate

j) $Cu(OH)_2$ copper(II) hydroxide

5. Mixed Problems!!!!!

a) SO_3 sulphur(VI) oxide

b) K_3N potassium nitride

c) $(NH_4)_3P$ ammonium phosphide

d) $ZnCO_3$ zinc carbonate

e) Mn_2O_7 manganese(VII) oxide

f) $HgSO_4$ mercury(II) sulphate

g) KBr potassium bromide

h) $Al(NO_3)_3$ aluminum nitrate

i) $Ir(CO_3)_3$ iridium(VI) carbonate

j) ZrS_2 zirconium sulphide