Page 1

Answer 1A) If XCu2 then X should be a metal with valency 2

Therefore

(1) Sulphate formula: XSO4

(2) Hydroxide formula: X(OH)2

Answer 1B) XN is nitride X is a valency 3 metal as nitrogen has valency 3

Therefore Sulphate's formula would be X2(SO4)3 and Hydroxide formula would be X(OH)3

Answer 1C) valency of Nitrogen in:

1) NO: +2

2) N2O: +1

3) NO2: +4

Answer 2B) The eight metals showing variable valency

1) Iron(Fe): +2, +3, =_=`,

2) Copper(Cu): : +1, +2

(3) Mercury(Hg): : +1, +2

(4) Tin(Hn): : +2, +4

(5) Lead(Pb): : +2, +4

(6) Gold(Au): : +1, +3

(7) Chromium(Cr): : +2, +3, +6

(8) Manganese(Mn): : +2, +3, +4, +6, +7

Answer 2C) Examples of Chemical Equations

_

Page 2

(a) One product: $2H2 + O2 \rightarrow 2H2O$

(b) Two Products: $CaCO_3 \rightarrow CaO + CO_2 + \Delta$ ■■.

(c) Three Products: $4HNO_3 \rightarrow 2H_2O + 4NO_2 + O_2$

(d) Four Products: $2KClO_3 \rightarrow 2KCl + 2O_2 + O_2 \uparrow + \Delta$