Page 1

Answer 1A) If XCI2 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 avalency 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,Æ+,
- 2) Copper (Cu): +1,+2
- 3) Mercury (Hg): +1,+2
- 4) Tin (Sn): +2,+4
- 5) Blmathrm{ead(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: CaCO3 \rightarrow CaO + CO2 + _ _ _ _

- (c) Three Products: $4HNO3 \rightarrow 2H2O + 4NO2 + O2$
- (d) Four Products: 2KClO3 \rightarrow 2KCl + 2O2 + O2 + Δ