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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 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 (Sn): +2, +4
- (5) *Le (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:

*stat aligned with intended ■

Justifications are provided below.

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(a) One product : 2H2 + O2 -> 2H2O

(b) Two Products : CaCO3 -> CaO + CO2 +

(C) Three Products: 4HN03 -> 2H2O + 4NO2 + O2

(d) four Products : 2KLO3 -> 2K4 + 2O2 + O2

Answer 2D