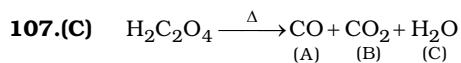


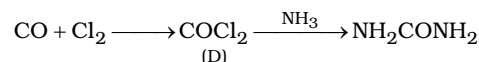
Level - 2

DTS-9

106.(B) Conversion of white tin to grey tin is called plague of tin.



CO burns with a blue flame

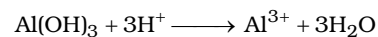


108.(B) Number of shared oxygen per tetrahedron in Amphibole Silicate is 2.5.

109.(C) Kainite mineral contains silicate anion. Silicate is a chain of three SiO_4 tetrahedral that shares corners with adjacent anion. Silicate share corners with adjacent tetrahedral. Therefore formula is $\text{Si}_3\text{O}_{10}^{8-}$.

110.(D) ΔH will be maximum for BI_3 because of its maximum Lewis acidic character.

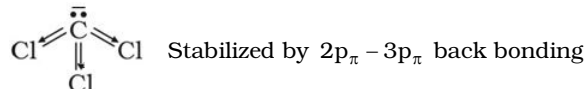
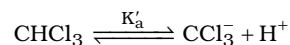
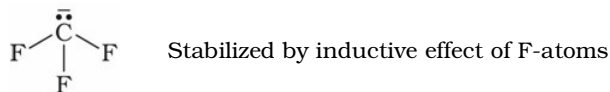
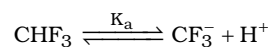
111.(C) As $\text{Al}(\text{OH})_3$ is amphoteric in nature hence, it can act as an antacid.



112.(C) SiCl_4 reacts with water due to vacant d-orbitals available with Si and no such vacant d-orbitals are available with carbon, hence CCl_4 does not react with water. Although, both SiCl_4 and CCl_4 are covalent.

113.(C) In group 13, 14, 15 as we descend down in group, the higher oxidation state becomes less stable due to inert pair effect. Therefore, lead show +2 as stable oxidation state. Hence, Pb^{4+} act as a strong oxidizing agent, itself reduced to Pb^{2+} very easily. Only statement I is correct and statement II is a incorrect.

114.(CD) $K'_a > K_a$



115.(B) Bond length is inversely proportional to bond order.