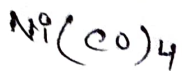
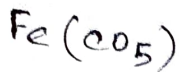
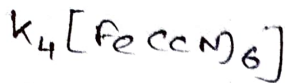


Homoleptic



Same ligand

Heteroleptic

diff ligand

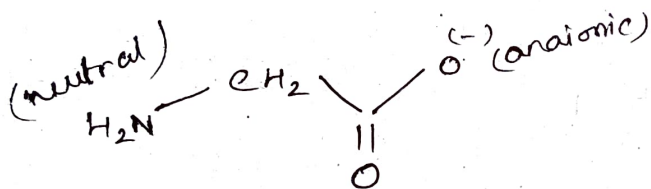
Inner metallic complexes:

→ first order, ligand should have both anionic and neutral donor atoms  $\Rightarrow$  ligand should fulfill the charge and CN

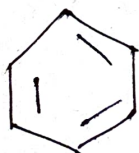
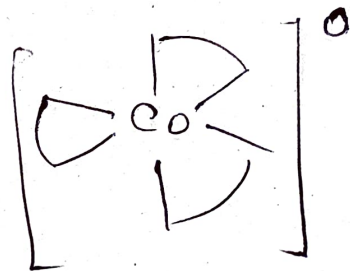
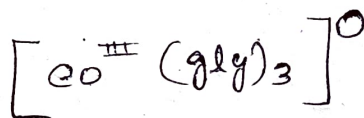
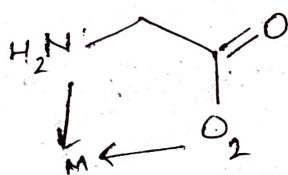
→ second order

→ third order

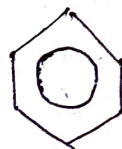
First order inner metallic:



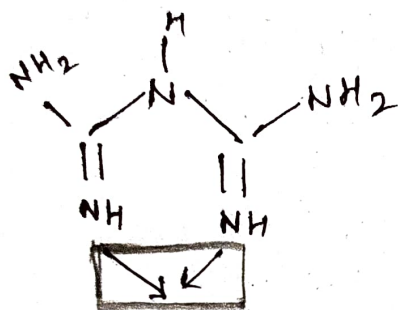
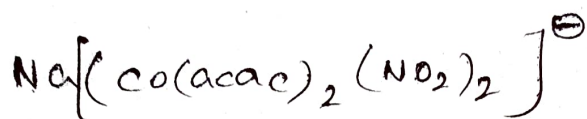
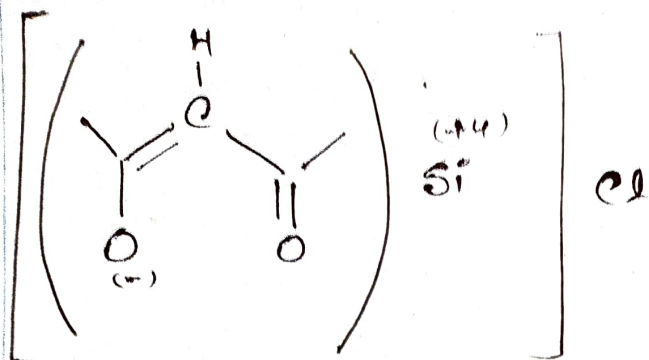
5,6,  $\rightarrow$  chelating agent



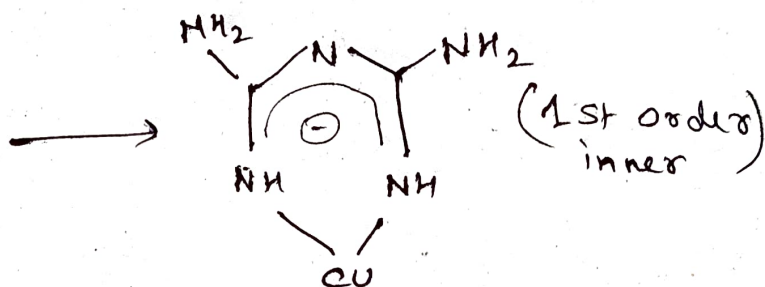
every bonds are of same length  
that's why it can be written as  $\rightarrow$



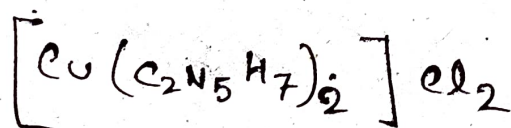
second order



Bignaride



HCl



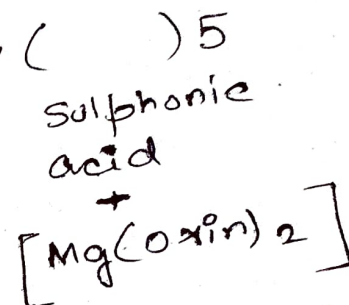
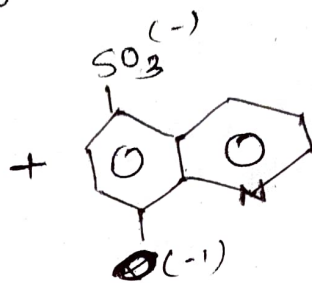
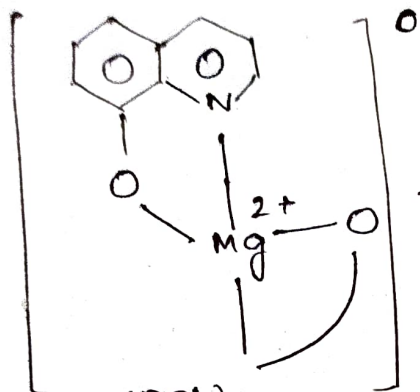
(water soluble)

conversion of 1st order non electrolytic comp into a catanionic comp is known as 3rd order inner metallic complex

organic sequestering agent

along

water insoluble



(Soluble in water)

(8 hydroxy quinoline)

(PPE)  
organic coordinating  
ligand if forms  
a stable but water  
soluble metal chelate,  
then the ligand is called  
an organic sequestering  
agent and the metal ion  
is said to be sequestered  
or masked