

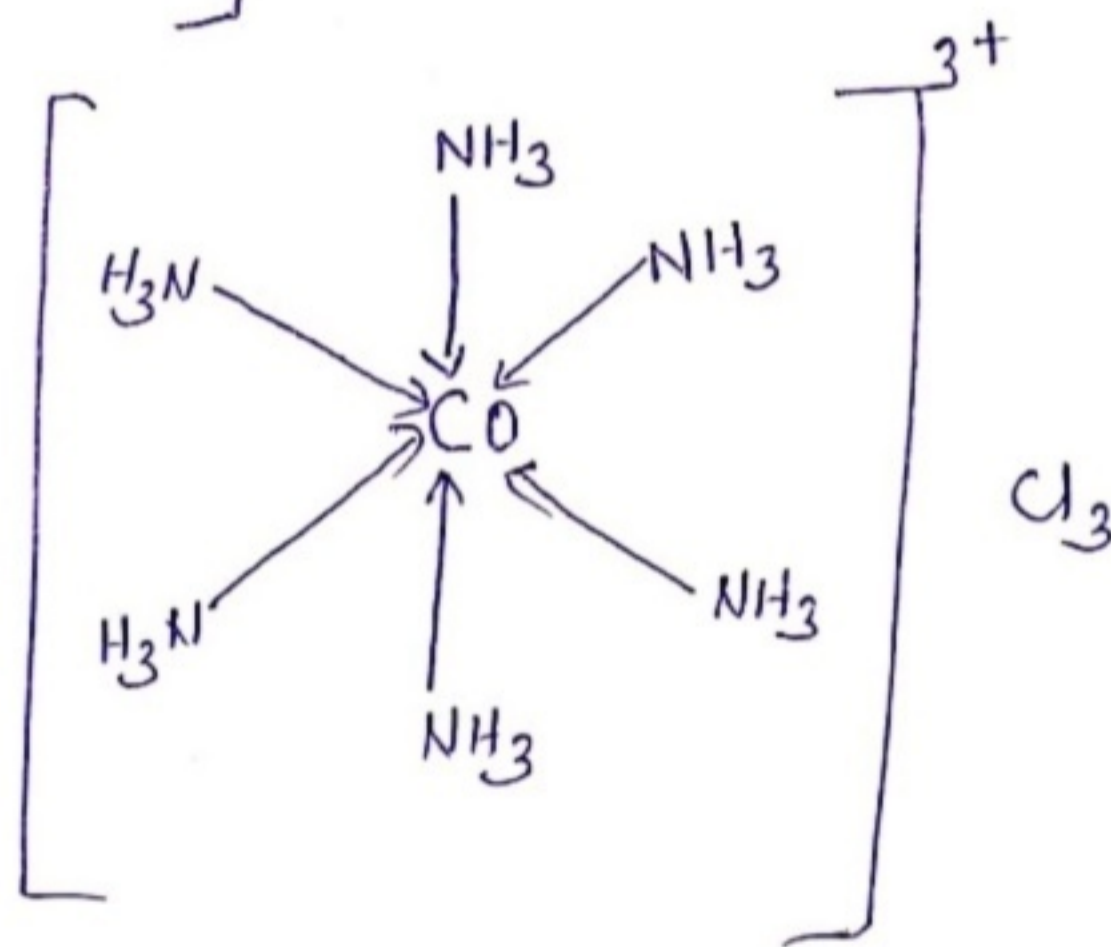
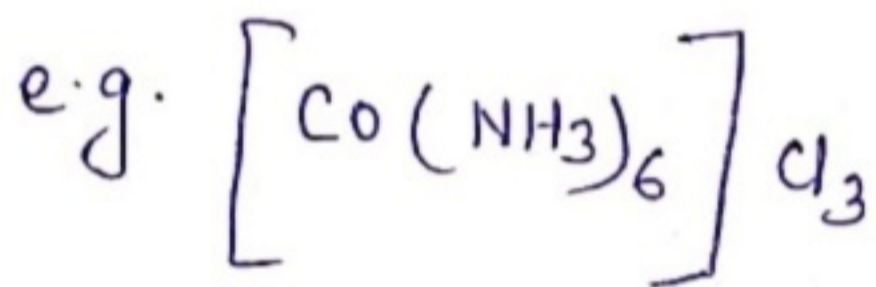
Co-ordination Compounds ^{1.}

Degree-II (H) , Paper-III , Group-B

Lecture-4 ,By:-Dr.Rinky ,18/09/2020

Coordination Compounds

* The compounds in which ligands are attached to metal cation/atom through co-ordinate bonds is called co-ordination compound or complex compounds.



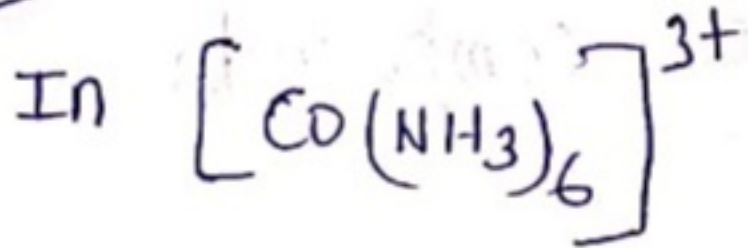
Complex ion

* The ions in which ligands are attached to metal cation through co-ordinate bonds is called complex ions.

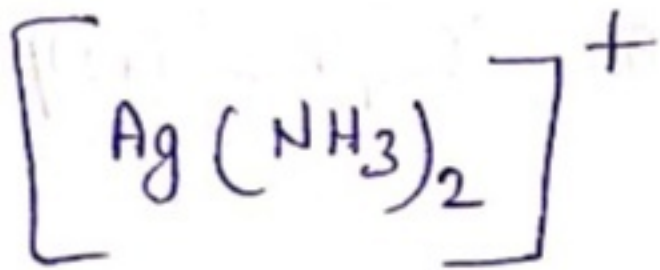
Coordination Number

* The number of donor atoms attached to metal cation/atom is called coordination no.

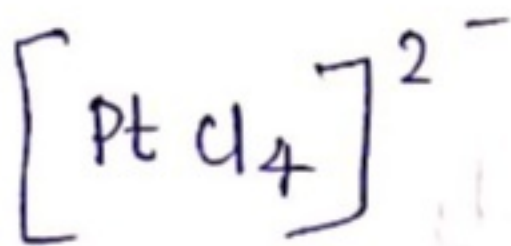
e.g.



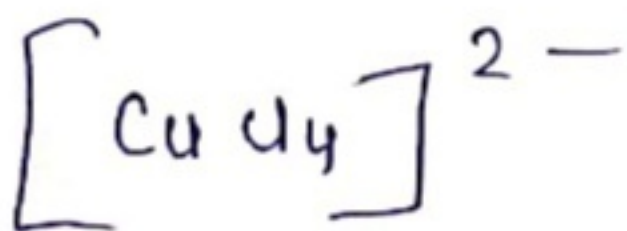
Coordination number of Co = 6



Coordination number of Ag = 2

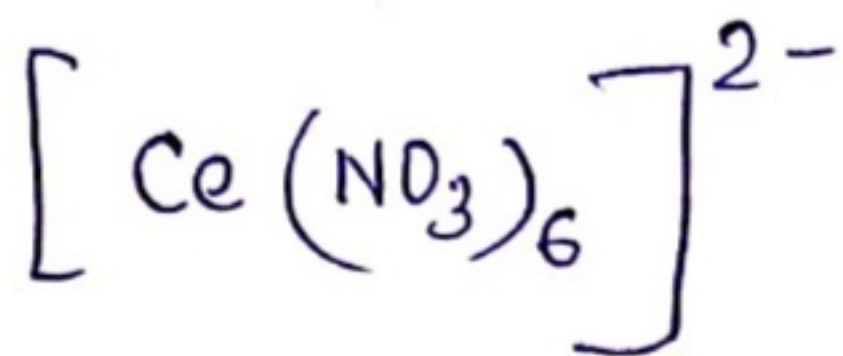


Coordination number of Pt = 4



Coordination number of Cu = 4

3.



Coordination number = 12

* Square bracket containing central atom and ligands is called co-ordination sphere and outside of this sphere called ionisation sphere.

To be continued in next lecture..

Dept. of Chemistry

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