

Co-ordination Chemistry 1.

19/06/2021 Lecture-18 Deg-II Hons.

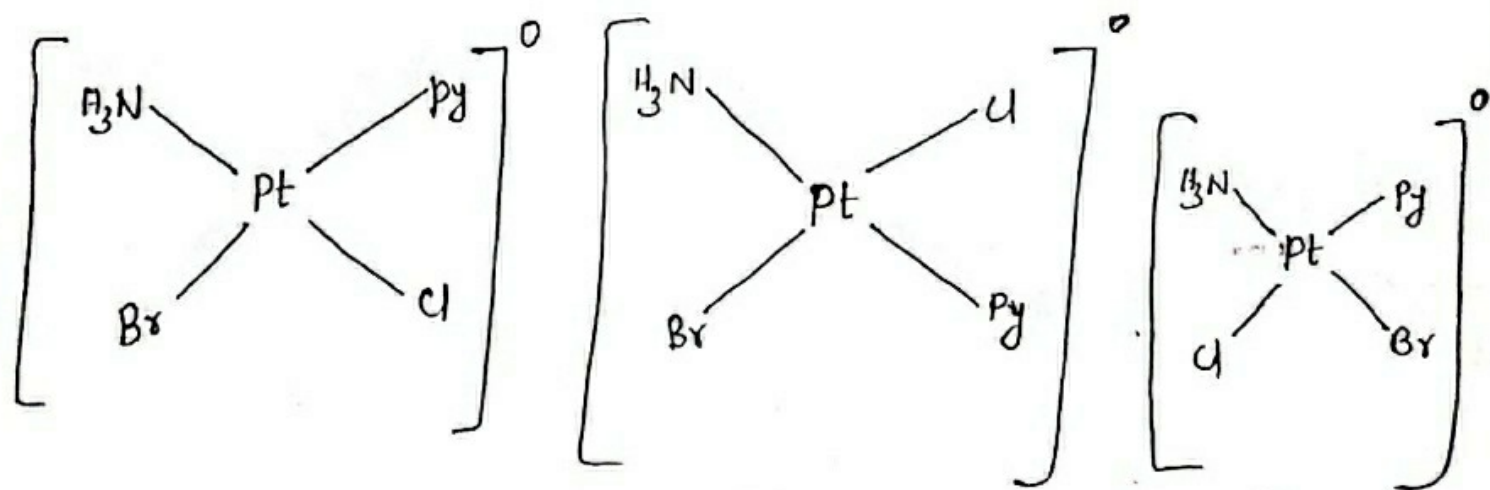
Paper-III Group-B Chapter-2

Topic :- Geometrical Isomerism Continued.

Geometrical Isomerism in Complexes which exhibit Co-ordination no. 4 Continued..

iv) $[Mabcd]^{n\pm}$ type complexes

Square planar complexes of this type exist in three isomeric forms :



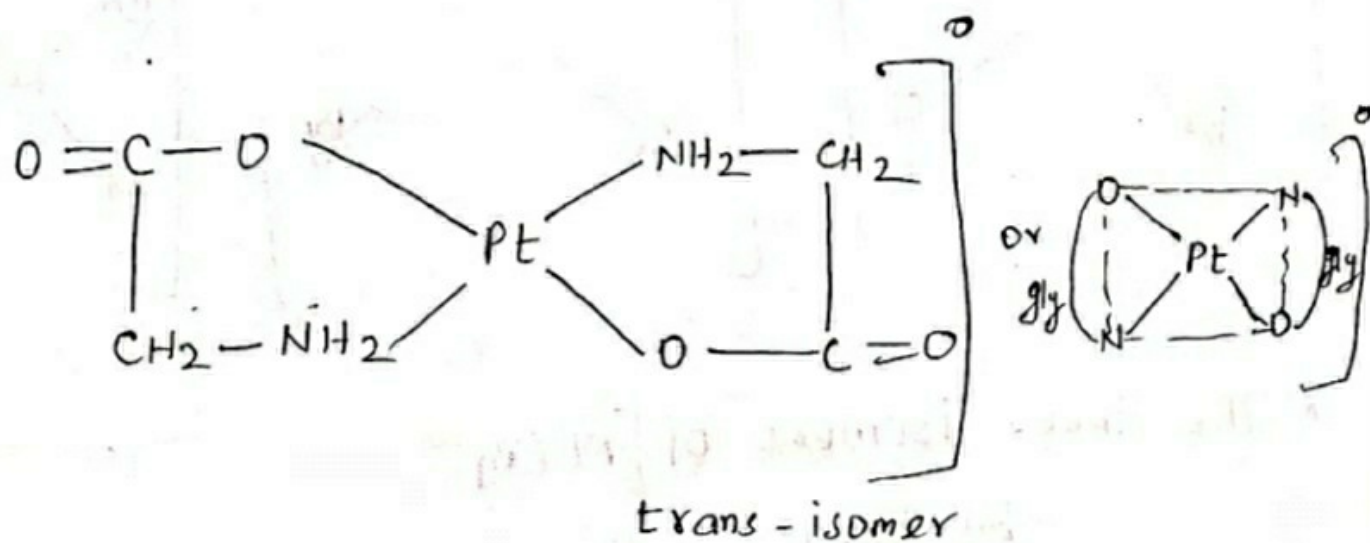
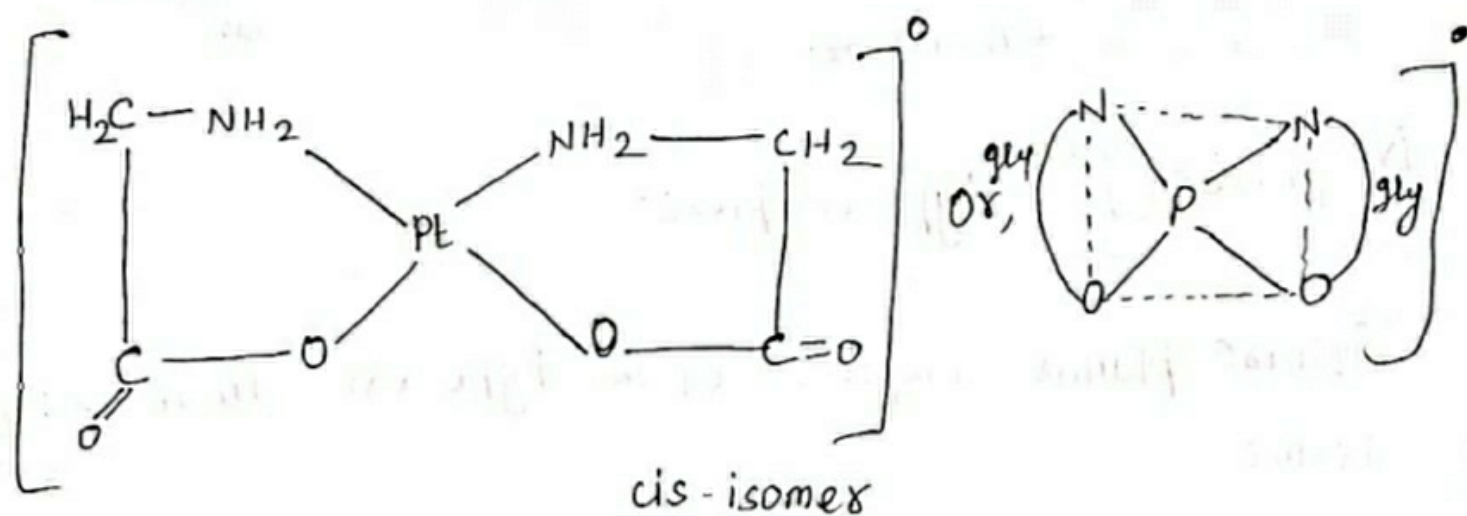
* The three isomers of $[Pt(py)(NH_3)ClBr]$ can be obtained by fixing one ligand, say NH_3 , at one corner and then placing the other three ligands, one by one trans to NH_3 .

v) $[M(AB)_2]^{n+}$ type complexes : —

2.

Here M = Central metal cation and AB is an unsymmetrical bidentate ligand in which 'A' and 'B' are two different donor atoms.

eg; $[Pt(gly)_2]$, $[Cu(gly)_2]$ etc.



Continued...