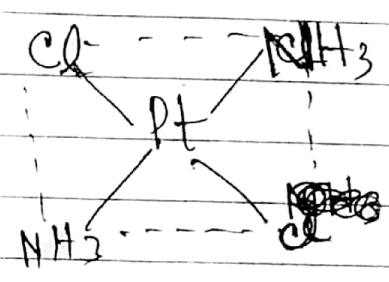
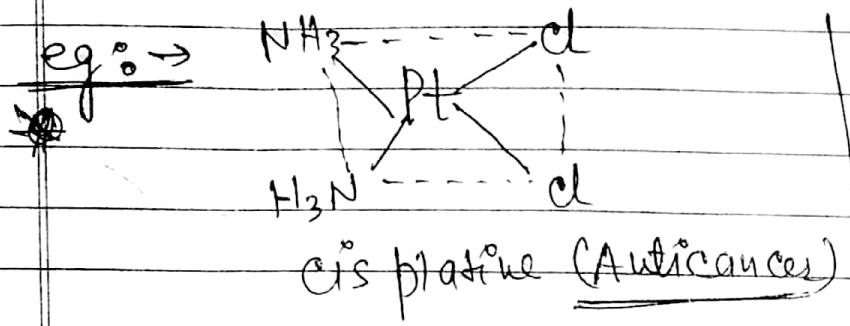
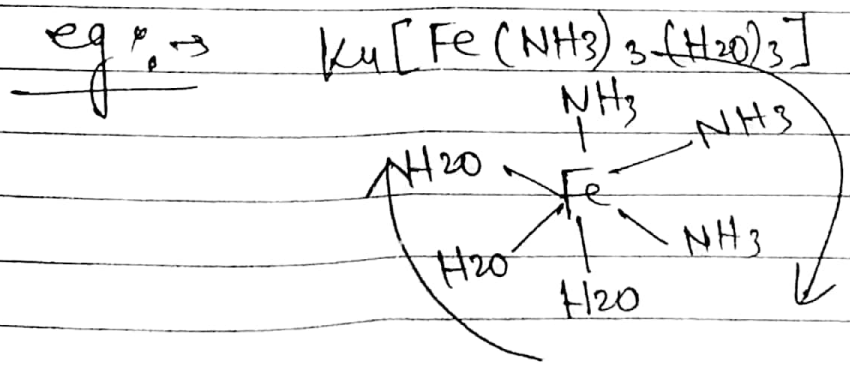


(b) Trans $\rightarrow$ When diagonal ligand same. top or bottom ligand different then show geometrical isomerism.

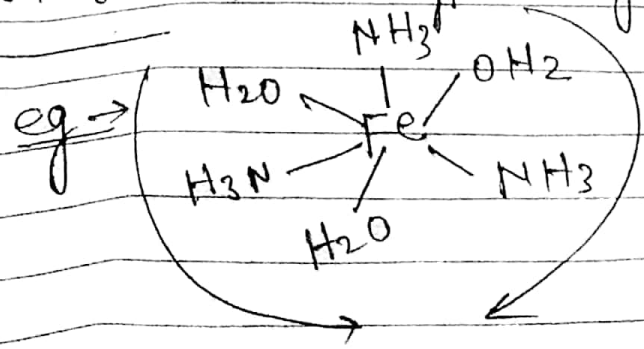
See character of Q. 2. 2



(c) Facial $\rightarrow$ When Compound having same ligand continue.



(d) Meridional $\rightarrow$ When different ligand present continue



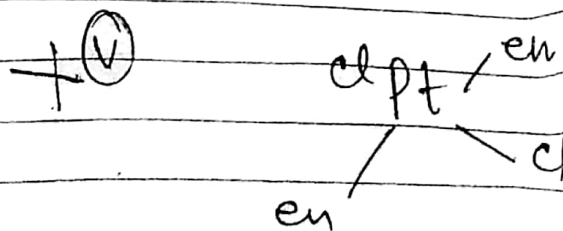
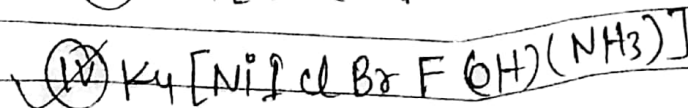
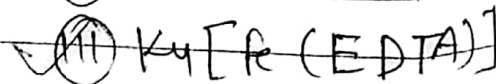
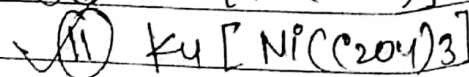
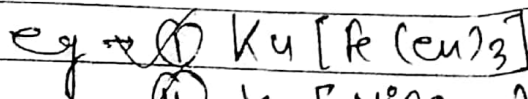
(2) Optical isomerism $\rightarrow$ When compounds rotates on passing light through it in form of energy then compound rotates either clock wise (dextro form or +d form) and Anticlock wise (Laevorotatory or -d form)

$\rightarrow$ For ^{optical isomerism} ~~optical isomerism~~ generally at least 1 bidentate ligand present. If no. of bidentate ligand $\uparrow$ then $\uparrow$ percentage probability of optical isomerism.

$\rightarrow$ Square planer doesn't show optical isomerism but tetrahedral and octahedral show optical isomerism.

$\rightarrow$ Trans doesn't show o. isomerism but cis show optical isomerism due to mirror image is diastereomers in nature.

$\rightarrow$ If all monodentate ligands ~~show~~ is different then show optical isomerism.

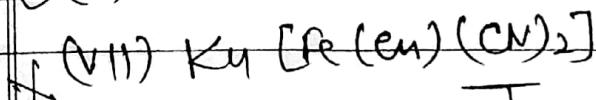
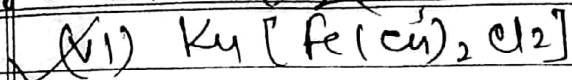


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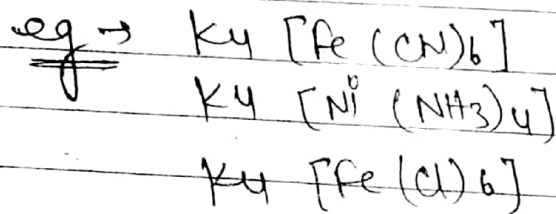
Date

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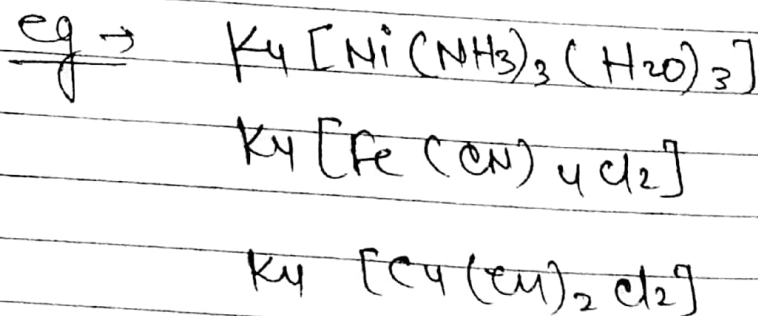


Square planar.

* Homoleptic Complex Compound → Complex compound in which only one type of ligands are present.



* Heteroleptic Complex Compound → When different ligand present in complex compound.



* Homopoly Nuclear Complex Compound →

2 complex compound having same metal.

