

for (ally) 3- x+(-4)=-2=> x=+2 (6) (62+) Hore, 6 All digands in teterahodral complexes are WFL [= 4 5] " OFSE = -0.6 neg + 0.4 nbg] Dt + np P $= [-0.6(4) + 0.4(3)] \Delta_t + 2P$ =-1.2 4+28 Ms = (n(n+2) = \(3(3+2) = \) T5 For [a (ly) = x + (-4) = -2 => x = +2 Cu :- 3 d 4s -> d 11-11 tag · CFSE=[-0.6(4)+0.4(3)] St+ 784P $= -0.40_{t} + 40$ $M_{s} = \sqrt{N(n+2)} = \sqrt{1(1+2)} = \sqrt{3}$ 7 a) (i) [P+(NH2)4(OH)] SO4 & [P+(NH2)4SO4] (OH) The type of Isomerism shown here -> Tonisation Isomerism this type of Isomerism there is exchange of coordination and ionization spheres of the coordinate complex. When compounds give different ions in solution, even though they have some same composition Hera @ Pt (NH3)4(OH)2 SO4 -> [Pt(NH3)4(OH)2] + SO4 6) Pt (NH3)4 SO4 (OH)2 -> [Pt(NH3)4 SO4] \$ + JOH-In O we get SO'T & Dwe get OH is The country ions (anion) are different

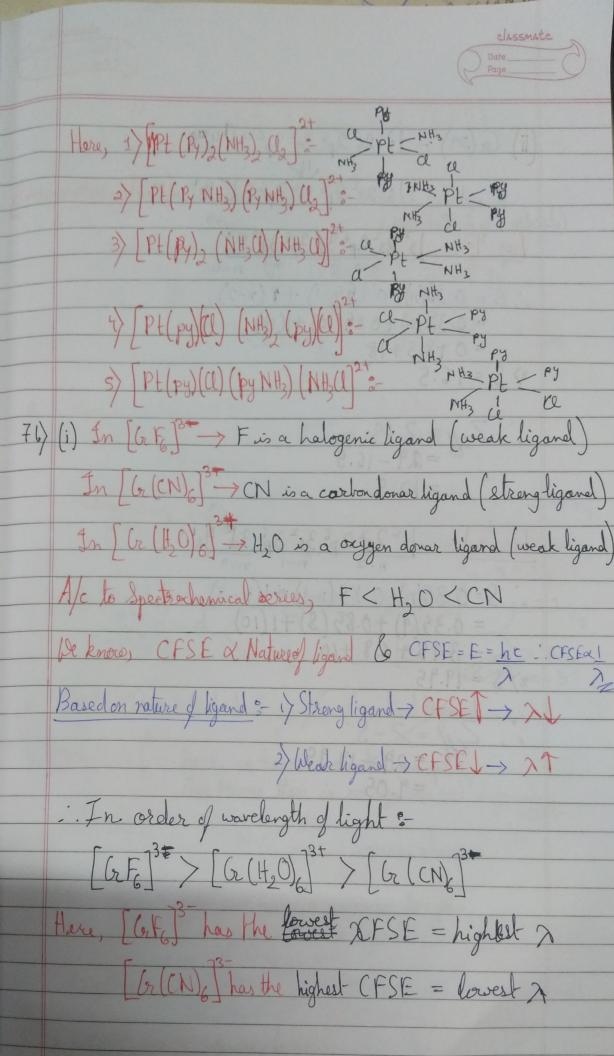
(ii) [(o(NH3); SCN] & [(o(NH3); NCS] The type of isomerism shown here—The Linkage Isomerism. In this type of isomerism, the ambidentate ligard in the complex charges their orientation and hence different donor atom. When there is antidentate ligard, is a complex, linkage isomerism can take place.

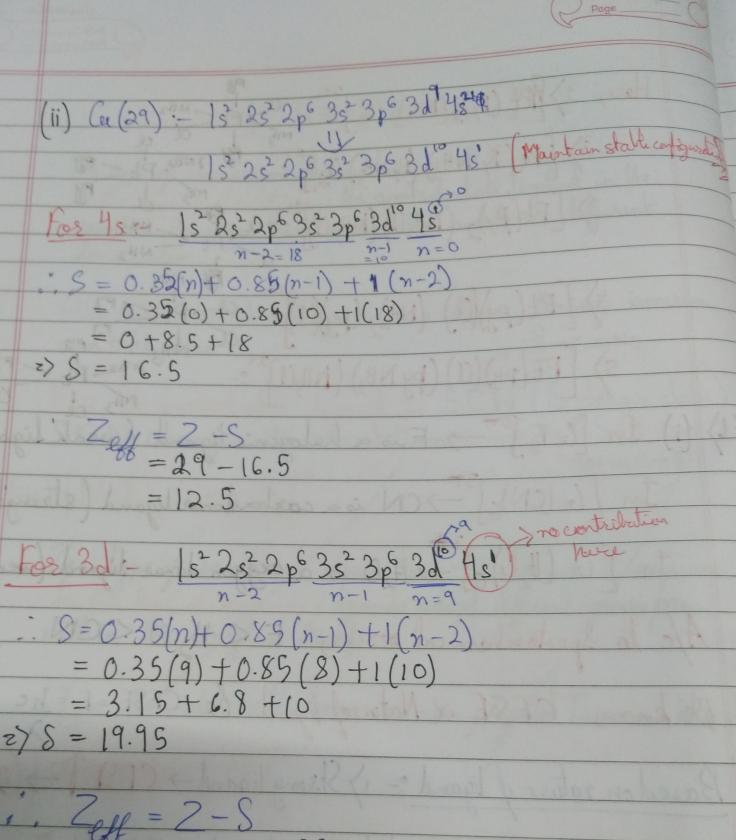
Here, the ambadentate digard is SCN (S clonar atom)

St N changes its orientation -> NES (N donor atom)

2:N = C-S:

[iii) [Pt (Py), (NH2)2 (b)] The type of isomerism shown here -> higard Isomerism within the complex itself (iii) [Pt (R)2 (NH2) (b) The type of isomerism shown here -> Geometrical I somerism
In this type of isomerism, the complex have same structural formula,
chemical formula but different spacial arrangements of ligands In [MAB (form > M(aa)(bl) (cc) · M (ado)(ab) (cc) p & Gr. I · M(aa)(bc) (bc) · M(ac)(bb) (ac) · M (ac) (bc) (bc) Cis de trans form also possible for each care





 $\frac{Z_{eff}}{2} = \frac{2 - S}{29 - 19.95}$ = 9.05