Assignment-04

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EXPT. NO. - 04: Lyanotype Blue Printing.

Dr. Ligands that produce a large splitting of d-orbitals and favour paving of electrons are called strong Field Ligands.

Those which produce a small splitting of d orbitals. are called bleak Field Ligands.

In ascending order,

Bood < elo < 420 < cno < co

Dr. In both the complexes, fe is the +3 Oxid ! State with configuration 3015. CNO is strong ligand and in its presence, 3d electrons pain up leaving only one electron unpaired. The hybridisation is d² 2p³ forming inner orbital complex. In contrary to this, 420 is a week ligand and in its presence, 3d obelrous do not pain up. The hybridisation is sp²d² forming an enter orbital complex containing fine unpaired electrons. Hence, [fe (CN)6] shows weak paramagnetic surposes than its aqueous complex.

gs. [fe (c, 04),] is not stable among jour son complexes.

Rosson: Metal Chelates aux more stable. Ovalate is a bidentate legand and forms metal chelates.