



Part-B :-Hard Acid • Somall ionic radius
• Large conic radius
• Low electron affinity & high electron tivity • High electron affinity & low electron equivity

11: At the drarge

"Low the charge · for Polarizability · High Polarizability · High Topization Potential · Low Ionization Potential Eg: Ht, Na, Kt, Ca2+ Eg: - Cit, Ag, PL2+ ii) for fe(11):-Fe2+ Tul 12 11 11 1 02 high spin -1) CFSE=[-0.4 nbg+0.6 neg] Do+3P = [-0.4(4)+0.6(2)] A. t3P = [-1.6+1.2]' do+P => C.FSE=-0.40+P a) Magnetic rature: 45= In (n+2) 45 + B, It is Paramagnetic = 54(6) =>Ms= \24 = 4.89 For low spin-1) CFSE = [-0.4 nt + 0.6 neg] Do + P [-0.4(6)+0.6(0)] do+P 2) CFSE = -2.4 Do+P 2) Magnetic nature : Ms = (n(n+2) = 10 (0+2) >> My = 0

Ms=0, It is Diamagnetic











