Lecture 28 Problems

Octahedral Weak Field Strong (a): 96 69 71 O umportred Le up porland Octo hedryl Weak & Strong (6) 3 nn policy CO: Jig, O unpalrod Octahoral weak & strong 11 11

(V) For Fe, weak has  $(tz0)^d$   $(eg)^z$ Strong has  $(tz0)^6$ (FSE =  $6 \cdot \frac{-2}{5} \Delta_0 + 2 \cdot \frac{3}{5} \Delta_0 = \frac{-2}{5} \Delta_0 + 10E$  for work

(FSE =  $6 \cdot \frac{-2}{5} \Delta_0 + 63 \Omega = \frac{-12}{5} \Delta_0 + 3\Omega = \frac{-12}{5} \Omega_0 + \frac{12}{5} \Omega_0$ 

(5: Weak: Structure: (+29)3 Strong (FSE: 3:= 10 = 50.

(d) Weak & strong structure! (tzg) 6 (lg) 4 (FSE = 6. \$ 10 4 4. \$ 10 + 5 PE

- (9), MM 6
- (d): +3
- (c): Weak's Elis a weak ligand
- (R) Recall

$$E = hV$$
 and  $C = V \lambda$  thus  $E = \frac{hc}{7.4 \cdot 10^{-7} m}$ 

and thus

