Question 1:
Write Werner's structural formula for the following complexes:

1- Potassium trioxalatoaluminate(III)

2- Calcium hexacyanoferrate(II)

Question 2:
Write according to the IUPAC the name of each of the following complexes:

3- \([\text{Cr(NH}_3\text{)}_6\text{]}\text{(NO}_3\text{)}_3\)

4- \(\text{K}_2\text{[PtCl}_6\text{]}\)

Question 3:
According to Slater's rules, calculate the effective nuclear charge on an electron present in the 3d orbital for Ti Element \((Z = 22)\)

Question 4:
Estimate \(\Delta_0\) \((10D_{q})\) for \([\text{Co(NH}_3\text{)}_6\text{]}\text{Cl}_3\); \((g\text{ for Co}^{3+} = 19.0; f\text{ for 6Cl} = 0.80, \text{ and for 6NH}_3 = 1.00)\)