Precipitation reactions and gravimetric analysis

- 1. Precipitation equilibrium: solubility product, thermodynamic solubility product and conditional solubility product.
- 2. Why is the solubility of the compound increased due to the presence of electrolytes in the solution? How do we call this effect? Explain using the appropriate equations and dependencies.
- 3. Why the solubility of the compound decreases due to the presence of a common (with compound) ion in the solution? How do we call this effect? Explain using the appropriate equations and dependencies.
- 4. Common ion effect.
- 5. Diverse ion effect.
- 6. Briefly describe: Ostwald ripening.
- 7. Effect of acidity on solubility.
- 8. Effect of complexation on solubility.
- 9. The gravimetric determination of nickel- give reaction and appropriate conditions
- 10. Gravimetric determination of iron as Fe₂O₃ give reaction and appropriate conditions.
- 11. Gravimetric factor brief description.
- 12. Coprecipitation- give definition and brief description.
- 13. Give definition of the solubility product and write its concentration and thermodynamic form.