**TITRIMETRIC ANALYSIS FOCUS QUESTIONS**

Please make short notes on the following questions:

1. Draw an annotated flow chart to describe the main steps in a titrimetric analysis.
2. Use titration curves to show the progress of the following titrations:
   1. Strong acid- strong base
   2. Strong acid- weak base
   3. Weak acid- strong base
   4. Weak acid- weak base
3. Explain the difference between the equivalence point and end point.
4. What is the most important consideration when choosing an indicator for a titration?
5. For each of the titration curves shown above:
   1. Label the equivalence point
   2. Suggest at least one indicator which would be suitable for the titration
6. How does a back-titration differ from the procedure you described in question 1 above?
7. Under what circumstances should back-titration be used?
8. Briefly explain the chemical principles underlying the following types of titration:
   1. Redox
   2. Gravimetric
   3. Complexometric
   4. Conductimetric