

P. Pages : 1

Time : Three Hours

**AW - 2265**

Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Answer **any eight** question.
 3. Diagrams and chemical equations should be given wherever necessary.

1. Discuss about acid-base indicators. write principle and procedure for assay of aspirin powder. **10**
2. Discuss in detail about steps involved in gravimetric analysis. **10**
3. Explain theory, scope, limitations of non-aqueous titration. **10**
4. Write various types of complexometric titrations. Write assay procedure for calcium gluconate powder. **10**
5. What are redox indicators? Explain the titration involving potassium permanganate. **10**
6. Explain Volhard's method of precipitation titration. Write its advantages and disadvantages. **10**
7. Explain about following terms- **10**
 - i) Standard deviation
 - ii) Primary Standard
 - iii) Precision and accuracy
8. What is diazotization? Explain principle of diazotization titration. **10**
9. What is mean by complexation and chelation? Write a note on stability of complexes. **10**
10. Write short note on **any two**. **10**
 - i) Kjeldahl method of nitrogen estimation.
 - ii) Oxygen flask combustion method.
 - iii) Warner's co-ordination number.
