

First Year Pharm D Degree Supplementary Examinations - February 2014

Pharmaceutical Inorganic Chemistry

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(3x10=30)

1. Explain the principle and general procedure involved in the limit test for chlorides and sulphates. Why and what modification is required for substances which are precipitating in acidic media
2. What is non-aqueous titration. Explain the basic principle involved in these titrations. Mention two examples each for titrants and indicators used.
3. Explain the mechanism by which acid-base balance is maintained in our body. Discuss electrolyte combination therapy

Short notes:

(8x5=40)

4. Describe the method of preparation of sodium fluoride and dibasic calcium phosphate
5. How do you prepare ammonium chloride. Mention the pharmaceutical uses
6. Discuss any two important radioactive isotopes in medicine
7. What are complexes? Describe the importance of pH Control in complexometric titrations
8. Classify errors? What are the methods to minimise errors in analytical procedures
9. How the raw materials and reagents used can influence the quality of a pharmaceutical. Explain with examples
10. Mention the chemical reactions and explain the principle involved in the assay of boric acid
11. What are topical agents and classify with examples. Mention the method of preparation and its specific uses of any two topical agents.