

First Year Pharm D Degree Supplementary Examinations - January 2016

Pharmaceutical Inorganic Chemistry

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(3x10=30)

1. Explain the principle behind non aqueous titrations. Mention the different types of solvents and the indicators used. Add a note on "solvent leveling effect".
2. Discuss the following types of complexometric titrations, with suitable examples
 - Direct titration
 - Back titration
 - Replacement titration
 - Titrations involving masking and de-masking agents
3. Explain how the limit test for arsenic is performed.

Short notes:

(8x5=40)

4. Distinguish between :
 - Determinate and indeterminate errors
 - Accuracy and precision
5. Explain the following terms and mention two examples for each:
 - Systemic and non systemic antacids
 - Cathartics
6. Explain the monograph of hydrogen peroxide
7. Physiological role of selenium and Iron in human health.
8. Outline the specific use of each of the following as a pharmaceutical aid:
 - Activated charcoal
 - Nitrogen gas
 - Dibasic calcium phosphate
 - Light kaolin
 - Talc
9. Explain the term radioactivity and dentifrices
10. Explain how nitrous oxide is prepared. Mention the storage conditions of nitrous oxide.
11. Explain the theory of indicators.
