

First Year Pharm D Degree Supplementary Examinations – January 2017

Pharmaceutical Inorganic Chemistry

Time: 3 Hours**Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay**(3x10=30)**

1. Classify volumetric methods and briefly explain each method. Explain Bronsted-Lowry and Lewis concept of acids and bases.
2. Define germicides, sanitizers, bacteriostatic and disinfectants. Explain the mechanism of action of antimicrobial agents.
3. What are precipitation titrations. Explain Mohr's method and modified Volhard's method.

Short notes:**(8x5=40)**

4. Mention the important physiological roles of iron and copper.
5. Mention the specific medicinal uses of each of the following
 - Sodium Phosphate
 - Zinc stearate
 - Potassium bromide
 - Magnesium Hydroxide
 - Nitrous oxide
6. Explain different types of complexometric titrations.
7. What are desensitizing agents. Explain the role of fluorides in the treatment of dental caries.
8. What is the chemical composition of bentonite. Mention its use and the test for purity.
9. Explain the principle involved in the limit test for iron, with reactions.
10. Classify solvents used in non-aqueous titrations with suitable examples.
11. Electrolyte combination therapy.
