

First Year Pharm D Degree Examinations - July 2015

Pharmaceutical Inorganic Chemistry**Time: 3 Hours****Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay**(3x10=30)**

1. What are precipitation titrations. Explain Mohr's method and Volhard's method.
2. Explain the mode of action of inorganic antimicrobials agents. Mention the typical properties of silver compounds as antimicrobials
3. Explain how the limit test for arsenic is performed on pharmaceutical samples.

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

4. Explain the following terms :
 - Error • Determinate error • Accuracy • Precision • Significant figures
5. Discuss the various tests that oxygen as a medical gas has to comply with.
6. Discuss one method of preparation of hydrogen peroxide. Mention how hydrogen peroxide is stabilized.
7. Discuss the physiological role of zinc and copper in human health.
8. Mention the specific use of each of the following as a pharmaceutical aid:
 - Bentonite. • Titanium dioxide • Magnesium stearate
 - Silica gel • Talc
9. Five diagnostic and therapeutic uses of radio-nuclides.
10. Medicinal use of each of the following:
 - Selenium sulphide • Sodium fluoride • - Sodium phosphate
 - Magnesium sulphate• • Boric acid
11. How the acid neutralizing capacity of antacids is determined.
