

First Year Pharm D Degree Examinations - August 2013

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, taking the example of titration of halogen salts of bases.
2. Discuss the theory behind complexometric titrations. Mention the details of the titrants and indicators used in complexometric titrations. (5+3+2)
3. Explain the principle behind the limit tests for sulphates and the limit test for iron (4+6)

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

4. Discuss the different types of errors.
5. Explain the following terms and mention one example each:
 - Saline cathartics
 - Dentifrices
6. Explain how hydrogen peroxide is assayed as per the method mentioned in the IP
7. Explain how a sample of boric acid is assayed as per the IP.
8. Explain the rationale behind combining dried aluminium hydroxide gels with magnesium hydroxide gels in antacid formulations.
9. Discuss the physiological role of zinc and manganese in human health.
10. Mention the method of assay of oxygen and the storage conditions.
11. Name five substances used as pharmaceutical aid for the specific purpose as:
 - Anti oxidants
 - Absorbents and adsorbents
