

**First Year Pharm D Degree Supplementary Examinations  
January 2019****Pharmaceutical Inorganic Chemistry****Time: 3 Hours****Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays****(3x10=30)**

1. Define the following terms: • Titrant • Titrand • Titration.  
With the help of titration curve suggest the best indicators for the titration involving strong acid vs strong base. Discuss the preparation and standardization of 0.1 M acetous per chloric acid. (2+3+5)
2. What are red-ox indicators. How will you prepare and standardize 0.1 M potassium permanganate solution. Discuss on the stability of complexes in complexometry titration. (2+3+5)
3. Differentiate isotopes and isobars. Discuss in detail on radiation hazards and safety measures in handling radioisotopes. Discuss on isotopes of iodine and their applications in medical science. (2+3+5)

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

4. What are secondary standards. Discuss their characteristics.
  5. Discuss the medicinal uses of the following:
    - Antimony potassium tartrate • Chlorinated lime
    - Copper sulphate • Bismuth subcarbonate • Ferric ammonium sulphate
  6. Discuss the principle involved in the limit test for sulphate and chloride
  7. Explain with suitable example the co-precipitation and post-precipitation.
  8. Discuss in detail the test for purity of oxygen IP.
  9. Discuss the ideal properties of Antacids
  10. An abstracted monograph on boric acid IP
  11. Discuss in detail preparation and assay of iodine tincture.
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