First Year Pharm D Degree Examinations July 2018 Pharmaceutical Inorganic Chemistry

Time: 3 Hours

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

- 1. Explain three important buffer systems and its role in physiological acid base balance. Add a note on the preparation and assay of potassium acetate.
- 2. Define primary and secondary standards with examples. Explain the titration curve for strong acid versus strong base. Mention the ideal characters for a primary standard.
- 3. What are expectorants. Classify expectorants with suitable examples. Explain the preparation and assay of ammonium chloride.

Short notes:

- 4. How acid neutralizing capacity of antacids is determined.
- 5. Mention the physiological roles of zinc and iodine.
- 6. Define redox potential and mention Nernst equation. Explain characteristics of redox indicators with suitable example.
- 7. Explain three types of radio-pharmaceutical radiations"
- 8. Briefly explain the various steps involved in gravimetric method of analysis.
- 9. Explain the method of preparation and standardization of perchloric acid solution.
- 10. Mention the pharmaceutical uses of each of the following
 - Sodium bisulphite •Activated charcoal •Potassium chloride
 - Zinc chloride •Carbon dioxide.
- 11. Explain the principle involved in the limit test for heavy metals.

Total Marks: 70

(3x10=30)

(8x5=40)