## First Year Pharm D Degree Examinations June 2017

## Pharmaceutical Inorganic Chemistry

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

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**                                                          **(3x10=30)**

1. Define accuracy and precision. List and describe different types of errors in quantitative analysis. Discuss methods to reduce errors in quantitative analysis.

    (2+3+5)

2. Define indicators. Discuss the Ostwald theory of indicator in detail. Differentiate Mohr's method from Volhard's method.                              (2+3+5)

3. Define isotopes and radioactivity. Explain the working of GM-counter with neat and labelled diagram. Discuss in detail the applications of radioisotopes in the diagnosis and treatment of diseases.                              (2+3+5)

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

4. What are primary standards. Discuss their characteristics.

5. How will you prepare and standardize 0.5M disodium EDTA solution

6. Discuss the principle involved in the limit test for iron.

7. Discuss the conditions required for getting a crystalline precipitate.

8. Discuss in detail the assay of oxygen.

9. Discuss the preparation of Aluminium hydroxide gel. List the test for purity for Al(OH)3 gel as per IP

10. List the iron compounds that are official in IP. Discuss the preparation of any one of them.

11. Discuss the preparation of chlorinated lime. Elaborate on test for halides in chlorinated lime.

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