

First Year Pharm D Degree Supplementary Examinations March 2025
Pharmaceutical Inorganic Chemistry**Time: 3 Hours****Total Marks: 70**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays**(3x10=30)**

1. Explain briefly the different sources of impurities present in pharmaceutical substances with example.
2. Explain the theory of Redox titrations. Write the principle with reactions and procedure involved in the assay of copper sulphate.
3. What are Antimicrobials. Give their mode of action. Enumerate the official antimicrobial agents and give the method of preparation and assay principle of Boric acid.

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

4. Explain different theories of Acid-base indicators.
5. Explain the different steps involved in Gravimetric analysis.
6. Give the method of preparation and uses of Aluminium hydroxide gel.
7. Discuss the role of fluorides in Dental caries.
8. Explain the different types of errors in volumetric analysis and ways to minimize them.
9. Give the principle and reaction for the assay of Sodium benzoate.
10. Explain the principle and procedure with reaction involved in the limit test for Sulfate.
11. Give the chemical formula and uses of sodium metabisulphite and sodium carboxy methyl cellulose.
