

QP CODE: 105326

Reg. No:

**First Year Pharm D Degree Supplementary Examinations
August 2021**

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. Define and elaborate on the characteristics of primary and secondary standards used in volumetric analysis. List the primary and secondary standards used in the following:
 - Neutralization titration
 - Red-ox titration
 - Complexometric titration
 - Precipitation titration
 - Non-aqueous titration
2. List the different types of solvents and define them with suitable examples. Elaborate on the types of solvents used in non-aqueous titrations and why they are preferred.
3. Define the following terms: radioactivity, isotopes and isobars. List the types of radiation and their characteristics. Explain in detail the measurement of radioactivity using GM-counter.

Short notes:

(8x5=40)

4. Oral rehydration salts.
5. Explain the preparation, assay and uses of ferric ammonium citrate.
6. What are expectorants. Write a note on potassium iodide.
7. Explain the preparation, assay and uses of sodium citrate.
8. Buffer solution and buffer capacity.
9. Explain the types of errors and ways to minimize the errors.
10. What are acidifiers and explain the preparation, assay and uses of ammonium chloride.
11. Explain the mechanism of action of saline cathartics and give the preparation and uses of magnesium sulphate.
