

2012 Scheme

QP CODE: 111006

Reg. No:

First Year B. Pharm Degree Supplementary Examinations June 2025 **Pharmaceutical Chemistry - I** **(Inorganic & Physical Chemistry)**

Time: 3 Hours

Total Marks: 100

- *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*
- *Write equations wherever necessary.*

Essay

(3x10=30)

1. Describe the principle, procedure and importance of limit test for chlorides.
2. Define antimicrobial agents. Write any four examples with their chemical formula.
Write the preparation and uses of potassium permanganate and hydrogen peroxide.
3. Kinetic theory of gases. Explain the deviations from ideal behavior.

Short notes

(14x5=70)

4. Explain the principle involved in limit test for sulphate.
5. Explain the various sources of impurities in pharmaceutical substances.
6. Write a note on electrolytes used in acid-base therapy.
7. What are radiopharmaceuticals. Write the clinical application, handling and storage of any one radiopharmaceuticals.
8. Define antacids. Write short note on aluminium hydroxide gel.
9. Explain the preparation and assay of ferrous sulphate.
10. What are astringents. Give chemical formula and uses of any two.
11. Write the preparation, storage condition and uses of sodium fluoride.
12. Explain the assay of calcium gluconate.
13. Brief note on pharmaceutical aids with examples.
14. What are antidotes. Write the chemical formula and specific use of any three.
15. Write a note on EDTA and dimercaprol.
16. List the physical properties of liquid state. Explain any one.
17. Explain Langmuir's and Gibb's adsorption isotherm.
