

# 2012 Scheme

QP CODE: 111006

Reg. No: .....

**First Year B. Pharm Degree Supplementary Examinations**

**December 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. Write the principle, procedure and reaction involved in the limit test for  
a) Lead    b) Iron
2. Explain the different sources of impurities in pharmaceutical substances.
3. What is radioactivity. How is it measured. List some clinical applications of radioisotopes. Write a short note on barium sulphate as radio opaque contrast medium

**Short notes**

**(14x5=70)**

4. Write notes on Oral Rehydration Salt.
5. What are acidifiers. Write a brief note on Ammonium chloride.
6. Explain about Physiological acid-base balance and its importance.
7. Write a short note on Dental products and describe the role of fluorides as anti-caries agent.
8. Enumerate the chemical properties and assay of ferrous sulphate.
9. Explain Saline cathartics with examples.
10. Explain the preparation and assay of Calcium gluconate.
11. What are Astringents. Explain with examples.
12. Describe the physiological role of sodium and bicarbonate ions in our body.
13. Give the properties of Alpha, Beta and Gamma radiations.
14. What is the role of Fluorides in the treatment of dental caries.
15. Write the method of preparation and assay of Hydrogen peroxide.
16. What are co-ordination compounds. Explain the applications of any two co-ordination compounds as antidote in toxicology.
17. Give the principle and reactions involved in the limit test for chloride.

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| <b>CORRECTION / NO-CORRECTION FILE</b> |
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**QPCODE: 111006**

**Dated: 08-12-2025**

**Question No.14**

**Replaced with “Define and classify colligative properties, explain any two in detail.”**

**Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.**

**(Sd/-)**

**CONTROLLER OF EXAMINATIONS**