

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY- BPHARM

Backlog Examination (2025 Pattern) April/ May – 2026 - Semester – I

Subject Name: Pharmaceutical Inorganic Chemistry
Subject Code: BP104T

Max. Marks: 75
Time: 3 Hours

Instructions

- All questions are compulsory. Write two sections on separate answersheets.
 - Draw neat diagrams wherever applicable
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Section : I

Q.1 Solve any FIVE from the following

15 Marks

- Define: i) Disinfectants ii) Antiseptic.
- Discuss the criteria for an ideal antacid used in therapy.
- Give the Monograph for Hydrochloric acid.
- Gives the formula, properties and uses of Ferrous Sulphate.
- Short note on-Sterile Water for Injection.
- Define emetics with example.
- What is alum and gives the formula, properties and uses of potash alum.

Q.2 Solve any TWO from the following

20 Marks

- Define Radioactivity. How to measure radioactivity and explain the storage condition and precaution to be followed when handling radioactive substance?
- Give the functions of major physiological ions used as electrolyte in the replacement therapy. Give the composition and uses of Oral rehydration salt.
- What are limit tests? Discuss in detail about chloride limit test and Iron limit test.
- Discuss about different sources of impurity in pharmaceuticals.

Section : II

Q.3 Solve any EIGHT from the following

40 Marks

- a. What are expectorants? Give mechanism of action, preparation, properties of Ammonium chloride.
- b. What is the importance of Buffers in Pharmacy?
- c. Note: Saline Cathartics give example.
- d. Write a note on poison and Antidote.
- e. Pharmaceutical applications of radioactive substances.
- f. Explain various official waters with their quality control tests.
- g. Describe about Protectives and Adsorbents.
- h. Give the uses of Sodium iodide¹³¹, Technetium^{99m}, Calcium⁴⁷
- i. Explain the role of fluoride in the treatment of dental caries
- j. Write a note on limit test for Sulphates
