

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY-B.PHARM

Term End Examination (2025 Pattern) December – 2025 - 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

15 Marks

Q.1 Solve any FIVE from the following

- Define a) Bacteriostatic agent b) Sanitizers.
- What are Anticaries Agents?
- State any two pharmaceutical applications of buffers
- Give the physiological role of Sodium ion & Potassium ion.
- Give principle & reaction in limit test for Chloride.
- Gives the formula, properties and uses of Ferrous Sulphate
- Define expectorants and explain their mechanism of action.

20 Marks

Q.2 Solve any TWO from the following

- Define Antacids. Give its ideal properties. Explain combination antacids.
- Explain the types of impurities in pharmaceutical substances and their sources.
- Explain Storage conditions, precautions and pharmaceutical applications of radioactive substances.
- Give the preparation, identification tests, assay and medicinal uses of
i) Hydrogen peroxide ii) Copper Sulphate

Section : II

Q.3 Solve any EIGHT from the following

40 Marks

- a** Give the mechanism of action of antimicrobials.
- b** Give the physiological role of buffers in pharmaceuticals.
- c** Write a detailed note on: ORS.
- d** Write a note on Handling of Radioisotopes
- e** Write a comparison of alpha, beta & gamma radiations
- f** Write a note on emetics.
- g** Explain various official waters with their Quality control tests.
- h** Define antidote and uses of Sodium thiosulphate, Activated charcoal, Sodium nitrite.
- i** Discuss Haematinics with example
- j** Write in detail about Astringents.
