

**FACULTY OF PHARMACY**

**B. Pharmacy I - Semester (PCI) (Main & Backlog) Examination, March 2024**

**Subject: Pharmaceutical Inorganic Chemistry**

**Time: 3 Hours**

**Max.Marks:75**

**PART - A**

**Note: Answer all the questions.**

**(10 x 2 = 20 Marks)**

1. Define limit test and assay.
2. What are antacids? Write the ideal properties of antacids.
3. Define expectorants and emetics with one example each.
4. What are antidotes? Write the mechanism involved in cyanide poisoning.
5. What are haematenics? Give the preparation of Ferrous sulphate.
6. Define astringents with two examples.
7. Define dentrifices and anti caries agents with one example each.
8. Add a note on ORS.
9. Write the preparation and uses of Ringer's solution.
10. What is impurity? Write the methods for purification of substances.

**PART - B**

**Note: Answer any two questions.**

**(2 x 10 = 20 Marks)**

11. Write a note on sources of impurities in detail.
12. (a) What are anti –microbial agents? Explain the mechanism of action involved in anti-microbials.  
(b) Add a note on preparation, assay and uses of boric acid.
13. What are electrolyte replenishers? Add a note on preparation, assay and uses of NaCl.

**PART - C**

**Note: Answer any seven questions.**

**(7 x 5 = 35 Marks)**

14. Add a note on physiological acid-base balance.
15. Write the principle and procedure involved in Limit Test for Iron.
16. Write the preparation, assay and uses of Ammonium Chloride.
17. Add a note on role of fluorides.
18. Write the preparation, assay and uses of Sodium thiosulphate.
19. Write the preparation, assay and uses of zinc sulphate.
20. Write a note on clinical applications of radio isotopes.
21. What is buffer capacity? Add a note on methods for adjusting isotonicity.
22. Write the principles and procedure involved in Limit Test for Arsenic with neat labeled diagram.