

B.Pharm I Year I Semester (R15) Regular &amp; Supplementary Examinations January 2018

**PHARMACEUTICAL INORGANIC CHEMISTRY**

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Classify inorganic pharmaceuticals based on their therapeutic uses as per IP.
  - Write the principle involved in the limit test for arsenic.
  - Write short notes on Diazotization titrations.
  - How do you standardize 0.1 N  $\text{HClO}_4$ ?
  - What are electrolytes? Write the composition of ORS.
  - Write the identification test for calcium gluconate.
  - Write the uses of heavy and light kaolins.
  - What are expectorants? Write the method of preparation of ammonium chloride.
  - Write the structure and clinical uses of sodium aurothiomalate.
  - Write the principle involved in the assay of boric acid.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 Write a detailed note on concept and content of monograph.
- OR**
- 3 What is Limit test? Discuss the limit test for lead in inorganic pharmaceuticals.

**UNIT – II**

- 4 (a) How do you prepare and standardize 0.1 N  $\text{AgNO}_3$ ?
- (b) Write a note on Volhard's method.

**OR**

- 5 Write a detailed note on Redox titrations.

**UNIT – III**

- 6 Discuss the test for purity and identity of:
- Ferrous fumarate.
  - Sodium citrate.

**OR**

- 7 What are dental products? Discuss the test for purity and to identity of:
- Iron-dextrose injection.
  - Strontium chloride.

**UNIT – IV**

- 8 Write informative notes on the following:
- Silver protein.
  - Bentonite.
  - Yellow mercuric oxide.

**OR**

- 9 Write test for purity and identity of:
- Calamine.
  - Colloidal silica.
  - Iodine.

**UNIT – V**

- 10 Give detailed account on antidotes? Write a detailed note on activated charcoal and sodium nitrite.
- OR**
- 11 Write assay, principle and procedure for the following:
- Sodium bicarbonate.
  - Copper sulphate.
  - Sodium thiosulphate.