

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**B.Pharm. Winter 2019-20 Examination**

Semester: 1

Subject Code: 08101101

Subject Name: Pharmaceutical Chemistry-I (Inorganic Chemistry)

Date: 17/12/2019

Time: 10:00am to 01:00pm

Total Marks: 75

**Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)**

- 1 Describe sources of impurities in pharmaceutical substances.
- 2 Define and classify Gastrointestinal agents. Write ideal properties of antacid. Write a note on milk of Magnesia.
- 3 Define Antimicrobial agents. Write a note on Hydrogen Peroxide.

**Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)**

- 1 Explain the principle of Arsenic limit test with reactions.
- 2 Define anticaries agents. Write a brief note on sodium fluoride.
- 3 Write a note on saline cathartics.
- 4 Define and classify expectorants. Explain mechanism of action of Potassium iodide as expectorant.
- 5 Explain about physiological acid-base balance.
- 6 Explain briefly about the theories of acid-base concepts.
- 7 Discuss the principle and reactions involved in limit test of sulphate.
- 8 Write down the preparation, properties and uses of Bismuth subgallate.
- 9 Write a note on Sodium Thiosulphate.

**Q.3 Answer in short. (2 marks each) (20)**

- 1 List down the contents of Monograph.
- 2 Write down the uses of Titanium Dioxide.
- 3 Write the principle of limit test for iron.
- 4 Write down the classification of antidotes.
- 5 Write down the uses of Sodium Nitrite.
- 6 Write the reactions of preparation of Ammonium chloride.
- 7 Brief about the Iron sorbitol injection.
- 8 Write down the preparation of Potassium iodide.
- 9 Write the importance of O<sub>2</sub> and N<sub>2</sub> gases in pharmaceuticals.
- 10 Describe the methods for removing hardness of water.