

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**B.Pharm., Summer 2017-18 Examination**

**Semester: 1**  
**Subject Code: 08101101**  
**Subject Name: Pharmaceutical Chemistry-I**

**Date: 29/05/2018**  
**Time: 2:00 pm to 5:00 pm**  
**Total Marks: 75**

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**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. Define limit test and explain gutzeit test with diagram and discuss the sources of impurities in Pharmaceuticals.
2. Enlist major intra and extra cellular Electrolytes. Discuss the physiological importance of Chlorides and Sodium ions and give a brief account of oral rehydration salts.
3. Classify Gastrointestinal agents. Write a note on Aluminum hydroxide gel and Milk of Magnesia.

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

1. Write short note on acid-base theories.
2. Enlist various methods for softening the hard water? Discuss any one method in detail.
3. Write a short note on Anticaries agents and monograph of Sodium fluoride.
4. Write monograph of Potassium iodide, and Zinc sulfate.
5. Write monograph of Kaolin, and Activated charcoal.
6. Write use of Calamine, Boric acid, Sodium nitrite, Sodium potassium tartarate, and dil. Hydrochloric acid.
7. Define Buffer capacity and write ideal characteristic of buffer solution.
8. Define Antimicrobials and write a monograph of Hydrogen peroxide solution.
9. Give a brief note on expectorants and emetics.

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

1. Write the storage conditions for Carbon dioxide and Oxygen.
2. Define: 1. Pharmacopoeia 2. Saline cathartics
3. Define: 1. Astringent 2. Protective
4. Comment: Citric acid is used in the limit test for Iron
5. Write monograph of Copper sulfate.
6. Define and classify Antidotes.
7. Give the synonyms of the following: 1. Precipitated Chalk 2. Green Vitriol
8. Enlist contents of Monograph.
9. Give the synonym and use of Nitrous Oxide.
10. Give the synonyms and uses of Common Salt.