

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**B.Pharm. Summer 2018-19 Examination**

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

**Date: 22/04/2019**  
**Time: 2:00pm to 5:00pm**  
**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. Classify Gastrointestinal agents. Write a note on Sodium bicarbonate and Milk of magnesia.
2. Define limit test and explain gutzeit test with diagram and discuss the sources of impurities in Pharmaceuticals.
3. Enlist major intra and extra cellular Electrolytes. Discuss the physiological importance of Chlorides and Sodium ions.

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

1. Define Buffer capacity and write ideal characteristic of buffer solution.
2. Write use of Calamine, Boric acid, Sodium nitrite, and Sodium potassium tartarate.
3. Write short note on acid-base theories.
4. Define Antimicrobials and write a assay & use of Hydrogen peroxide.
5. Give a brief note on expectorants and emetics.
6. Comment: Citric acid is used in the limit test for Iron.
7. Write monograph of Calcium carbonate, and Zinc sulphate.
8. Enlist various methods for softening the hard water? Discuss any one method in detail.
9. Define and classify Antidotes.& Explain any one in details.

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

1. Define: 1. Pharmacopoeia 2. Anticaries agents
2. Define: 1. Astringent 2. Protective
3. Write the storage conditions for Carbon dioxide and Hydrogen peroxide.
4. Give the synonym and use of Nitrous Oxide & copper sulphate
5. Explain in brief about ferric ammonium citrate.
6. Write monograph of Copper sulphate.
7. What is the molarity of a solution prepared by dissolving 95.5 g of pure KOH in 540 ml of solution? (MW of KOH 56.1 g/Mol)
8. Write a monograph of Sodium fluoride.
9. Define Acidifying agents with example.
10. Give a brief note on Oral Rehydration Salt.