

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**Pharm.D Examination April - 2019**

**Year: 1****Subject Code: 08207105****Subject Name: Pharmaceutical Inorganic chemistry****Date: 24/04/2019****Time: 10:00 am to 01:00pm****Total Marks: 70**

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**Instructions**

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

**Q.1 Essay Type Questions. (any 2 out of 3) (15 Mark Each) (30)**

1. Define buffer, derive Henderson-Hasselbach equation for pH and give a brief note on physiological acid base balance.
2. Enlist redox titrations. Explain theory of redox titration & Explain principle of any two redox titrations.
3. Define limit test. Write source of impurities and Explain principle of chloride and iron limit tests.

**Q.2 Short Essay Type Questions. (any 4 out of 5) (5 Mark Each) (20)**

1. Write in detail about non-aqueous solvents.
2. Explain in detail Mohr's method in precipitation titration.
3. Write in detail theory of complexometric titrations.
4. Enlist antacids & write ideal characteristics of Antacid.
5. Enlist types of detectors in radiopharmaceuticals. write about units of measurement of radioactivity.

**Q.3 Short Answers. (2 Mark Each) (20)**

1. Write a brief note on electrolytes.
2. Write a brief note respiratory stimulants.
3. Classify cathartics. write in brief about magnesium sulphate.
4. Write a brief note on anesthetics.
5. Write a brief note on dentifrices.
6. Define following terms: Expectorants, Sclerosing agents
7. Write the uses of preservatives and filter aids.
8. Define following terms: Antimicrobials, antidotes.
9. Write chemical formula, synonyms, storage and uses of Sodium bicarbonate.
10. Define following terms: Emetics, sedatives