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

Semester: 3                                              Date: 16-05-2018
Subject Code: 08101202                          Time: 02:00PM to 05:00PM
Subject Name: Pharmaceutical Analysis-I     Total Marks: 75

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

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

1. Enlist different types of EDTA titration and explain any four of them using suitable example.

2. Write a detailed note on Kjeldahl's Method.

3. Enumerate endpoint detection methods in redox titartion. Write detail note on Permangnometric titration.

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

1. Describe diazotization titration in detail.

2. Write a note on functions of Quality control and Quality assurance.

3. How will you determine halogen by Volhard's method?

4. What is Errors science? Write different methods of errors minimization.

5. Explain Acid-base theories of neutralization titration.

6. Write a note on Karl-Fischer Titration.

7. Write a note on EDTA as chelating agent.

8. Write a note on Oxygen Combustion flask method.

9. What are Buffers? Derive Henderson hasselbatch equation.

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

1. Differentiate: Protogenic solvents and Protophilic solvents.

2. Define (i) Normality (ii) Equivalent weight.

3. Differentiate masking and demasking agents with suitable example.

4. Explain Back titration with example.

5. Differentiate Iodometry and Iodimetry.

6. Enumerate different types of Redox titration.

7. Comment: Mohr's titration is carried out in acidic media.

8. What is leveling and differentiating effect of solvents? Explain in brief.

9. Comment: Nitrobenzene is used in Volhard's Method.

10. The Ksp of AgCl is $1.6 \times 10^{-10}$. What is the solubility of AgCl in 0.10 M $CaCl_2$?