Seat No:	Enrollment No:

PARUL UNIVERSITY FACULTY OF PHARMACY

B.Pharm. Winter 2019-20 Examination

Semester: 3 Date: 21/11/2019

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.

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

(20)

- 1. Define buffers. Derive Henderson-hesselbach equation & write about acid base indicators.
- 2. Enlist types of redox titrations. Write in detail about principles of mercury metry and iodometry.
- 3. Give the types of neutralization curve and explain in detail with diagram.

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

(35)

- 1. Write about theory of complexometric titrations.
- 2. Write about kjeldahl method.
- 3. Write the principle of 2,6-dichlorophenol indophenol titrations.
- 4. Explain the principle of cerrimetry.
- 5. What is errors. Explain errors minimization.
- 6. Write a short note on non aqueous titrants and indicators.
- 7. Write about biphasic titrations in neutralization titrations.
- 8. Write a short note on non aqueous solvents.
- 9. Enlist precipitation titrations and explain any one in detail.

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

(20)

- 1. Explain ionic products of water in neutralization titrations.
- 2. Write the difference between quality assurance and quality control.
- 3. Explain law of mass action in neutralization titrations.
- 4. Give the examples of redox and acid base indicators
- 5. Write about sampling techniques for solids.
- 6. Write about calibration of volumetric flasks.
- 7. Write the principle of volhard's method in precipitation titrations.
- 8. Write the pharmacopoeial applications of complexometric titrations.
- 9. Give the examples of complexometric indicators and titrants.
- 10. Write in brief about gasometric method.