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Seat No.	
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[5345]-2006

First Year B.Pharmacy (II Sem.) EXAMINATION, 2018
PHARMACEUTICAL ANALYSIS—I
(2015 PATTERN)

Time : Three Hours

Maximum Marks : 60

- N.B. :—**
- (i) All questions are compulsory.
 - (ii) Answers to the two sections should be written in separate answer-books.
 - (iii) Neat diagrams must be drawn wherever necessary.
 - (iv) Figures to the right indicate full marks.

SECTION-I

Q1 Explain theoretical considerations, limitations and Non-aqueous solvents in non-aqueous titration **[10]**

OR

What are neutralization titrations? Explain in detail Neutralization curves with suitable examples.

Q2) Answer the following (any four) **[12]**

- a) Define Primary standard. Enlist requirements of primary standards.
- b) Write about T-test.
- c) Calculate equivalent weight of Sodium oxalate, Potassium permanganate and Aluminium hydroxide
- d) Explain effect of temperature on non-aqueous titrations.
- e) What is buffer index? Write equation to calculate buffer index.
- f) Discuss in brief Ostwald's theory.
- g) Explain the terms Molarity, Normality and Molality.

Q3) Write short notes on (any two) **[8]**

- a) Primary and secondary standards.
- b) Indicators in Non-aqueous titrations.
- c) Types of errors.
- d) Titration of amino acid

P.T.O.

SECTION-II

Q4) What is co-precipitation and how it is reduced? Give the applications of Gravimetric analysis [10]

OR

Differentiate between Iodimetric and Iodimetric titrations. Explain importance of pH conditions for each of them. Add a note on Ceriometry.

Q5) Answer the following (any four) [12]

- a) How will you prepare and standardize 0.1 N AgNO_3 solution.
- b) Differentiate between co-precipitation and post precipitation.
- c) Explain the term Ligand and Sequestering agent.
- d) Compare Mohr's method and Volhard's method.
- e) "Sulphuric acid is used in redox titrations" Give reason.
- f) Explain Assay of calcium gluconate as per I.P.
- g) Explain common ion effect. How is it utilized for controlling the concentration of weak electrolyte.

Q6) Write short notes on (any two) [8]

- a) Sodium Nitrite Titration.
- b) Organic precipitants.
- c) Pharmaceutical Applications of Complexometric titrations
- d) Adsorption indicators.