

Total No. of Questions : 6]

SEAT No. :

P1976

[5145]-206

[Total No. of Pages : 2

F. Y. B. Pharmacy
PHARMACEUTICAL ANALYSIS-I
(2013 Pattern) (Semester-II)

Time : 3 hours]

[Max. Marks: 70

Instructions to the candidates:

- 1) *Answers to the two sections should be written in separate answer books.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *All question are compulsory.*

SECTION-I

Q1) What are types of errors? Explain ways to minimize it. Add note on accuracy and precision. **[10]**

OR

Explain in detail neutralization curves (with examples) of

- a) Strong acid & Strong base titration.
- b) Strong base & weak acid titration.

Q2) Answer the following(any five) **[15]**

- a) Define Primary standard. Enlist requirements of primary standards.
- b) Explain the terms significant figures and standard deviation.
- c) Preparation and Standardization of 0.1 M Perchloric acid solution.
- d) What do you mean by Protogenic and protophilic solvent explain with examples.
- e) Define Molarity, Molality and Mole Fraction.
- f) Discuss in brief Ostwald's theory.
- g) Explain the terms Buffer, Buffer index, Buffer capacity.

Q3) Write short notes on (any two) **[10]**

- a) Primary and secondary standards.
- b) Types of Non-aqueous solvents.
- c) Errors in analysis.
- d) Expression of concentration and strength of solution.

P.T.O.

SECTION-II

Q4) What are Argentometric titrations? Give comprehensive account of different Precipitation titrations to detect end point. **[10]**

OR

What is Gravimetric analysis? Discuss in detail unit operations in Gravimetric analysis.

Q5) Answer of the following(any five) **[15]**

- a) How will you Prepare and standradize 0.1 N AgNO₃ solution.
- b) How solubility product and common ion effect affects precipitation.
- c) Discuss types of EDTA titrations.
- d) Differentiate between iodimetric and Iodometric titration.
- e) Explain essay of calcium gluconate as per I.P
- f) How will you prepare and standardize 0.05 M disodium EDTA solution.
- g) Explain digestion in gravimetry.

Q6) Write short note on (any two) **[10]**

- a) Sodium Nitrate Titration
- b) pM indicators.
- c) Pharmaceutical Applications of Gravimetry.
- d) Titanious Chloride titration.

