



**SB-1154**

**Second Year B. Pharm. Examination**

**March / April – 2011**

**PH - 204 : Pharmaceutical Analysis - I**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="Second Year B. Pharm."/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="PH - 204 : Pharmaceutical Analysis - 1"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="5"/> <input type="text" value="4"/>	Section No. (1, 2,.....) : <input type="text" value="1&amp;2"/>
Student's Signature	

**SECTION - I**

- 1 Attempt any five : 10**
- (1) Define and classify volumetric analysis.
  - (2) Explain Lowry-Bronsted concept of Acid-Base with examples.
  - (3) Classify the solvents used in non-aqueous titrations with examples.
  - (4) Explain Warner's coordination numbers.
  - (5) Comment on the statement "Aqueous solution of Sodium acetate is neutral".
  - (6) Calculate pH and pOH of a  $5.0 \times 10^{-2} M$  solution of NaOH.
- 2 Attempt any three : 9**
- (1) Explain various types of complexometric titrations.
  - (2) Explain various factors affecting solubility product constant.
  - (3) What is co-precipitation ? How will you minimize co-precipitation ?
  - (4) Explain Volhard's method of precipitation titration.
- 3 Attempt any four : 16**
- (1) Explain leveling and differentiating effects of solvents.
  - (2) Discuss permanganate titration in acidic and basic condition using suitable example.

- (3) Define and Classify errors in pharmaceutical analysis.
- (4) Write a brief note on acid base indicators.
- (5) Write a note on adsorption indicator.

## SECTION - II

- 4 (a) Explain following terms with examples : (any **four**) 8
- (1) Iodometry
  - (2) Buffer capacity
  - (3) Solubility product constant
  - (4) Primary standard compound
  - (5) Common ion effect
  - (6) Post precipitation.
- (b) Explain accuracy and precision with suitable examples. 3
- 5 Attempt any **three** : 12
- (1) Application of masking agent.
  - (2) Discuss the factors affecting solubility of precipitate.
  - (3) Distinguish between back titration and blank titration.
  - (4) Define buffers and give its applications in pharmacy.
- 6 Attempt any **two** : 12
- (1) Write a note on Oxygen flask combustion method.
  - (2) Write a note on diazotization titration.
  - (3) Discuss Kjeldahl method of nitrogen estimation in detail.
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