Paper ID : 253250

Roll No:

BPHARM
(SEM I) THEORY EXAMINATION 2025-26
PHARMACEUTIAL ANALYSIS-1

TIME: 3 HRS M.MARKS: 75

Note: Attempt all Sections. In case of any missing data, choose suitably.

SECTION A

1. Attempt *all* questions in brief. 10 x 2 = 20

a.	Differentiate between accuracy and precision.
b.	Discuss the role of indicators in titrations.
c.	Outline the principle of limit test of chloride.
d.	Explore the term dichrometry.
e.	Recall the examples of primary and secondary standards.
f.	What do you mean by electrochemical methods of analysis?
g.	Write down the role of complexing agent.
h.	Differentiate between co-precipitation and post-precipitation.
i.	Define the term molality and formality.
j.	Highlight the term pharmaceutical errors.

SECTION B

2. Attempt any *two* parts of the following: 2 x 10 = 20

a.	Illustrate various neutralization curves for acid-base titration with suitable examples.
b.	Discuss the detailed account of Mohr's method and Fajan's method.
c.	Explain the significance of non-aqueous titration. Discuss acidimetry and alkalimetry in non-aqueous media.

SECTION C

3. Attempt any *five* parts of the following: 7 x 5 = 35

a.	Describe various types of errors and methods for minimizing them.
b.	Explain the principles and steps involved in gravimetry analysis.
c.	Discuss Ostwald's ionization theory and quinonoid theory of acid-base indicators with suitable examples.
d.	Elaborate the estimation of Ephedrine HCl and Sodium benzoate.
e.	Write a note on iodometry and iodimetry titrations.
f.	With a neat diagram, explain the construction of an electrochemical cell and describe the working of the standard hydrogen electrode.
g.	Write a detailed note on history of Indian Pharmacopoeia.