



PAPER ID-310122

Printed Page: 1 of 1
Subject Code: BP102T

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BPHARM
(SEM I) THEORY EXAMINATION 2023-24
PHARMACEUTICAL ANALYSIS – THEORY

TIME: 3 HRS

M.MARKS: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief.

10 x 2 = 20

a.	What is Nernst equation?
b.	Why is disodium edetate used instead of EDTA? What is their molecular weight?
c.	Define the following Indicator & End point in titrimetric.
d.	Give the name of indicator electrode and reference electrode used in potentiometric titration.
e.	What is the use of wetting agent like chloroform and nitrobenzene in Modified Volhard method
f.	What are the conditions required for the Diazotization titrimetric?
g.	What are Self indicators?
h.	What is Diffusion current?
i.	Define the Accuracy & Precision.
j.	Give the formula for calculation of Normality and PPM.

SECTION B

2. Attempt any *two* parts of the following:

2 x 10 = 20

a.	Write the principle of Polarography. Discuss in detail on construction and working of Dropping Mercury Electrode (DME)
b.	What is Neutralization titration curve? Explain Neutralization curve for strong acid and strong base. Comment on the indicators used.
c.	Explain the principle of non-aqueous titration. Mention its advantage over the aqueous titration. Discuss the various solvents used in non-aqueous titration and explain leveling and differentiating effect of solvents.

SECTION C

3. Attempt any *five* parts of the following:

7 x 5 = 35

a.	Write the principle, procedure, and applications of Fajan's method. Give some account on types of errors and methods of their minimization
b.	Discuss the principle involved in complexometric titration. Write short notes on pM indicators.
c.	Discuss various steps involved in Gravimetric analysis.
d.	Explain in detail about different types of conductometric titration curve.
e.	Discuss about various oxidizing agents used in Redox titration
f.	Write a note on Iodometry & Iodimetry. Discuss Co-precipitate & post-precipitate
g.	What is diazotization? Write in brief about basic principle and application of diazotization titration.