Paper ID : 250429

Roll No:

BPHARM
(SEM I) THEORY EXAMINATION 2024-25
PHARMACEUTICAL ANALYSIS-I

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.	Define molarity and normality.
b.	Define acid base titration with example.
c.	Enlist types of errors in pharmaceutical analysis.
d.	Recall the name of solvent used in nonaqueous titration.
e.	What do you by metal ion indicators.
f.	Enlist application of redox titrations titration in pharmaceutical analysis.
g.	What do you mean by demasking reagents?
h.	Define reducing agents with example.
i.	How EDTA work in complexometric titration?
j.	Classify the electrodes in potentiometric titration.?

SECTION B

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

a.	Discuss the sources of errors, types of errors and methods of minimizing errors.
b.	Explain Volhard's, and Modified Volhard's method in precipitation titration.
c.	Demonstrate construction and working of reference electrode.

SECTION C

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

a.	Explain sources of impurities in medicinal agents.
b.	Describe the preparation and standardization of potassium permanganate
c.	Define indicator with example. Discuss the theories of acid base indicators.
d.	Illustrate theprinciple and steps involved in gravimetric analysis.
e.	Explain the principle and differences between Iodimetry and Iodometry.
f.	Discuss the estimation of Sodium benzoate in Non-aqueous titration.
g.	Explain the principle of Polarography. Derive and explain the Ilkovic Equation.