

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY- BPHARM

Backlog Examination (2025 Pattern) April/ May – 2026 - Semester – I

Subject Name: Pharmaceutical Analysis I
Subject Code: BP102T

Max. Marks: 75
Time: 3 Hours

Instructions

- All Questions are Compulsory. Write two sections on separate answersheets.
 - Neat diagram must be drawn wherever necessary.
 - Figures to the right indicate full marks.
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Section : I

Q.1 Solve any FIVE from the following

15 Marks

- Give applications of non-aqueous titration?
- What do you mean by qualitative analysis? Name any two methods to qualitative analysis.
- Write down the method of prepare and standardize 0.1M HCl?
- Define specific and molar refraction.
- Enlighten the term accuracy, precision and error.
- Discuss standard hydrogen electrode.
- What do you mean by post-precipitation?

Q.2 Solve any TWO from the following

20 Marks

- Enlist different methods of Redox titration. Explain in detail Permanganometry method.
- Define the term gravimetry. Explain the steps involved in gravimetry and its application.
- What do you mean by refractometer. Explain working, principle and applications of Abbe's refractometer.
- Give principle of complexometric titrations. Explain different types of complexometric titrations.

Section : II

Q.3 Solve any EIGHT from the following

40 Marks

- a. Explain co-precipitation and post precipitation.
- b. Write a note on acidimetry?
- c. Write down method for estimation of sodium benzoate.
- d. Discuss dropping mercury electrode with its advantages.
- e. Explain standard hydrogen electrode.
- f. Write a short note on Metallochromic indicators?
- g. Discuss various solvents used in non-aqueous titrations?
- h. Give Short note on detection of end point by potentiometric titrations.
- i. Write a note on Fajan's method?
- j. Differentiate between qualitative and quantitative analysis.
