

QP CODE: 302326

Reg. No:

**Third Year Pharm D Degree Regular/Supplementary Examinations
October 2025
Pharmaceutical Analysis**

Time: 3 Hours

Total Marks: 70

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw Diagrams wherever necessary.*

Essays

(3x10=30)

1. Define pH and detail the procedure involved in the potentiometry titrations
2. Define Electrophoresis. Explain the equipment requirement and preparations of paper electrophoresis
3. Explain the applications of UV visible spectrophotometry in multi component analysis

Short notes

(8x5=40)

4. Different types of paper chromatography techniques
5. Explain the stages of Flame photometry analysis
6. What is optical rotation. Write note on Circular Dichroism
7. Define the following
(a) λ max (b) Auxochrome (c) Chromophores (d) Electro motive force (e) Rf
8. Separation principles of adsorption column chromatography
9. Write Short note on ISO 9000
10. Explain the various gas chromatography columns
11. Classify the types of Ion exchange resins use in ion exchange chromatography

CORRECTION / NO-CORRECTION FILE
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QPCODE: 302326

Dated: 15-10-2025

Question No.2

Modified as "Define Electrophoresis. Explain the equipment requirement and applications of paper electrophoresis."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS