

# 2012 scheme

QP CODE: 412006

Reg. No: .....

## Final Year B.Pharm Degree Supplementary Examinations

April 2025

### Pharmaceutical Analysis – II

Time: 3 Hours

Total Marks: 100

- 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. Write the principle, stationary phases used, methods of packing and applications of column chromatography. (3+2+3+2)
2. List out various thermal analytical techniques. Explain thermogravimetric analysis in detail. (2+8)
3. Write the principle, ionization techniques and applications in mass spectroscopy. (3+5+2)

#### Short notes

(14x5=70)

4. Explain the principle and applications of electrophoresis.
5. Write about preparation of TLC plates. Define R<sub>f</sub> value. (4+1)
6. Classify columns used in gas chromatography.
7. Counter current extraction.
8. What are the types of conductometric titrations. Explain with an example each.
9. Enlist the detectors used in UV spectroscopy. Explain any one in detail. (1+4)
10. Explain the principle and applications of potentiometric titration. (2.5+2.5)
11. Differentiate between nephelometry and turbidimetry.
12. Explain the construction and working of a fluorimeter.
13. Liquid sample handling in IR spectroscopy.
14. Define chemical shift and write about various factors affecting chemical shift.
15. Explain the working of hollow cathode lamp.
16. Define validation as per WHO. What are its objectives and benefits.
17. Explain GLP.

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