

QP Code: 403008

Reg. No.....

**Final Year B. Pharm (Ayurveda) Degree Regular/Supplementary
Examinations April 2022**

Pharmaceutical Analysis II

Time: 3 hrs

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:

(2x10=20)

1. Write the principle and applications of infra-red spectroscopy.
2. Explain the basic principle involved in polarography. Write about dropping mercury electrode along with its advantages and disadvantages.

Short notes:

(10x5=50)

3. Explain the preparation of plates in Thin Layer Chromatography.
4. Qualitative and quantitative applications of colorimetry.
5. Good Manufacturing Practices (GMP).
6. List out various detectors used in UV-Spectroscopy. Explain any one in detail.
7. Explain Gel filtration technique.
8. Instrumentation of HPLC with neat labelled diagram.
9. Principle and applications of Amperometric titrations.
10. Define thermal analysis and explain Differential Scanning Calorimetry (DSC).
11. Explain the various components in UV Spectrophotometer.
12. Applications of Mass Spectroscopy.

Answer briefly:

(10x3=30)

13. Gradient elution technique.
14. Define the terms chromatography and quality control.
15. Different burners used in flame photometry.
16. Define and classify electrophoresis.
17. Difference between fluorescence and phosphorescence.
18. Applications of thermogravimetry.
19. Principle involved in NMR Spectroscopy.
20. Preparation of column in column chromatography.
21. Name the detectors used in HPLC.
22. Define and classify Quenching.
