

QP Code: 403008

Reg. No.....

**Final Year B. Pharm (Ayurveda) Degree Regular/Supplementary
Examinations March 2025**

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. Explain the theory involved in IR spectroscopy with brief outline of IR spectroscopy instrumentation
2. Explain the standardization and design of quality control labs.

Short notes:

(10x5=50)

3. Describe the construction and working of photo multiplier tube with neat labeled diagram
4. Explain the construction and working of golay cells and thermocouple detector used in IR
5. What is thermogravimetry. Explain various classification of thermogravimetry.
6. Give the construction and working of DME
7. Discuss the working principle and construction of differential scanning colorimeter
8. Describe the construction of burners used in flame photometry with diagram
9. Write the differences between nephelometry and turbidimetry
10. What is the standardization procedure for churna.
11. Explain the principle involved in Amperometric titration
12. Explain the principle involved in atomic absorption spectrophotometry

Answer briefly:

(10x3=30)

13. Why detector placed perpendicular to incident radiation in nephelometry
14. What are stationary phase and mobile phase
15. Write the limitations of paper chromatography
16. What is frontal analysis
17. What is a Guard column. Write its significance
18. Gel filtration Chromatography.
19. What is partition chromatography. Give example
20. What is paper electrophoresis. Classify
21. List out the main component of NMR instrument
22. Write the importance of fragmentation of molecules
