

QP Code: 403008

Reg. No.....

**Final Year B. Pharm (Ayurveda) Degree Regular/Supplementary
Examinations March 2024**

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 transitions involved in the UV-Visible spectroscopy. Emphasis on electromagnetic radiation and the various energy levels in organic chromophores
2. Explain the principle and working of HPLC.

Short notes:

(10x5=50)

3. Write the importance of quality control in pharmacy
4. What is chemical shift. Write its importance
5. Describe the practical steps involved in paper electrophoresis
6. Gel filtration chromatography.
7. Explain the separation techniques involved in column chromatography
8. Write the practical aspects of paper chromatography
9. Write the application of nephelometry and turbidimetry
10. Explain the construction and working of flame photometry with neat labeled diagram
11. Derive and explain Beer- Lambert's Law.
12. Briefly explain the radiation sources used in IR spectrophotometer

Answer briefly:

(10x3=30)

13. Define bathochromic shift and hypsochromic shift
14. Write the importance of monochromator
15. What is finger print region. Give its significance
16. What is Quenching. Give example
17. Name the fuel gases used in flame emission spectroscopy
18. Write the block diagram of turbidimetry
19. What is adsorption chromatography. Give example
20. Define wet packing and dry packing
21. Name the internal standard used in NMR spectroscopy
22. Define molecular ion and fragment ion
