

QP Code: 403008

Reg. No.....

**Final Year B. Pharm (Ayurveda) Degree Supplementary Examinations
November 2021**

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 paper chromatography. Also explain about different development techniques used in paper chromatography.
2. Explain in detail about the principle and applications of atomic absorption spectroscopy.

Short notes:

(10x5=50)

3. Differentiate between Nephelometry and Turbidimetry.
4. Principle involved in flame photometry.
5. Types of vibrations in infrared spectroscopy.
6. State Beer's Law. Also explain the deviations from Beer's law.
7. Types of amperometric titrations.
8. Explain dropping mercury electrode along with its advantages and disadvantages.
9. Principle and applications of Thermogravimetry.
10. Types of current in polarography.
11. Define chemical shift and explain the various factors affecting chemical shift.
12. Explain the principle involved in mass spectroscopy.

Answer briefly:

(10x3=30)

13. Explain the criteria for IR absorption.
14. Define R_f value and R_x value.
15. Detecting agents used in thin layer chromatography.
16. Define wave length and Isobestic point.
17. Explain the effect of concentration on fluorescence intensity.
18. Photomultiplier tube.
19. Principle involved in HPLC.
20. Principle and applications of paper electrophoresis.
21. Applications of NMR spectroscopy.
22. Theory of polarimetry.
