

QP Code: 403008

Reg. No.....

**Final Year B. Pharm (Ayurveda) Degree Regular/Supplementary
Examinations April 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 fluorimetry. Also explain the various factors influencing fluorescence intensity.
2. Discuss the principle and instrumentation of High Pressure Liquid Chromatography (HPLC).

Short notes:

(10x5=50)

3. Explain the working of Hollow Cathode Lamp with the help of a neat diagram.
4. Instrumentation and applications of Thermogravimetry.
5. Principle and applications of capillary electrophoresis.
6. Enumerate various detectors used in Infra-Red Spectroscopy. Explain any one in detail.
7. Classify chromatography based on principle and mode of separation.
8. Explain various development techniques in Paper Chromatography.
9. Construction and working of dropping mercury electrode.
10. Explain different types of amperometric titration curves with examples.
11. Salient features of Good Laboratory Practises (GLP).
12. Describe the principle and applications of thin layer chromatography.

Answer briefly:

(10x3=30)

13. Explain the theory of NMR Spectroscopy.
14. Define bathochromic shift and hypsochromic shift.
15. List out the ionisation techniques used in mass spectroscopy.
16. Discuss the applications of Differential Scanning Calorimetry
17. Principle involved in atomic absorption spectroscopy.
18. Define chemical shift and list out the factors affecting chemical shift.
19. Pharmaceutical applications of Polarography.
20. Types of electronic transitions in UV Spectroscopy.
21. Working principle of nephelometer.
22. Various types of burners used in flame photometry.
