

QP Code: 403008

Reg. No.....

**Final Year B. Pharm (Ayurveda) Degree Supplementary Examinations
April 2018**

Pharmaceutical Analysis II

Time: 3 hrs

Total Marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(2x10=20)

1. Explain about the standardization of Ayurvedic drugs and the problems faced.
2. Explain principle instrumentation and application of HPLC with reference to natural products.

Short notes:

(10x5=50)

3. Enumerate the detectors used in uv spectroscopy
4. Explain the theory behind IR.
5. Instrumentation of nephelometer.
6. List the factors affecting R_f value in paper chromatography
7. What is spectroscopy. Explain about EMR.
8. Qualitative application of colorimetry.
9. Different types of current generated in polarography.
10. Detectors used in mass spectroscopy.
11. Chemical shift and factors affecting chemical shift.
12. Principle and pharmaceutical application of DSC.

Answer briefly:

(10x3=30)

13. Burners used in flame photometry.
14. Application of atomic absorption spectrophotometry.
15. Fluorescence and phosphorescence.
16. Faraday cup detector
17. Chemical quenching.
18. Application of NMR.
19. Polarography.
20. Criteria for a compound to absorb IR radiation.
21. Thermogravimetry.
22. Bathochromic shift.
