

**QP Code: 403008**

**Reg. No.....**

**Final Year B. Pharm(Ayurveda) Degree Examinations, October 2015**

**Pharmaceutical Analysis II**

**Time: 3 hrs**

**Total Marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays:**

**(2x10=20)**

1. Explain the principle, instrumentation and applications of HPLC.
2. Discuss fluorescence in brief. Explain the factors affecting fluorescence.

**Short notes:**

**(10x5=50)**

3. Good laboratory practice.
4. Classify the chromatography with example.
5. Different types of electronic transitions.
6. Explain the effect of concentration on fluorescence intensity.
7. What are the needs and problems faced by the ayurvedic pharmaceutical industries in standardization of ayurvedic drugs. Suggest some method to solve the problems.
8. Enumerate the detector used in the IR spectroscopy.
9. Explain the instrumentation of NMR.
10. Explain the principle and instrumentation of mass spectroscopy.
11. Define electrophoresis and add a note on paper electrophoresis.
12. Different types of current generated in polarography.

**Answer briefly:**

**(10x3=30)**

13. Pharmaceutical applications of polarimetry.
14. Principle of AAS.
15. The method used to detect the compound in paper chromatography.
16. Applications of mass spectrometry.
17. Instrumentation of nephelometer.
18. Photovoltaic cell.
19. Shielding and de-shielding.
20. Analytical profile for the standardization of thaila preparation.
21. Detector used in fluorimetry.
22. Instrumentation of flame emission spectroscopy.

\*\*\*\*\*