

QP Code: 403008

Reg. No.....

**Final Year B. Pharm(Ayurveda) Degree Supplementary Examinations,
March 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 mass spectrometry.
2. Discuss about flame photometry and explain in details about its various features.

Answer briefly:

(10x5=50)

3. Explain the instrumentation of colorimetry.
4. Discuss the theory of UV spectroscopy.
5. What you mean by standardization. Mention the standardization procedure for sindhura.
6. Phenomenon of fluorescence and phosphorescence with energy level diagram.
7. Instrumentation of IR spectrophotometer.
8. Different type of development technique used in paper chromatography.
9. Explain different types of HPLC techniques.
10. Nephlo turbidimeter with the help of neat labelled schematic diagram.
11. Principle and pharmaceutical applications of NMR spectrometry.
12. Thermogravimetry.

Short notes:

(10x3=30)

13. Ilkovic equation.
14. Various types of quenching.
15. Solvent used in NMR spectrometry.
16. Bathochromic shift
17. Hollow cathode lamp with neat labeled diagram.
18. Pump used in HPLC.
19. Applications of flame emission spectroscopy.
20. Different types of peak in mass spectrometry.
21. Applications of chromatography.
22. Rf value.
