

Final Year B.Pharm Degree Supplementary Examinations January 2017

**PHARMACEUTICAL ANALYSIS – II
(2010 scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams and equations wherever necessary.

Essay

(3x10=30)

1. Define and explain Beer-Lamberts law. Explain different types of monochromaters and detectors used in ultra violet spectroscopy.
2. Explain the methods of sample handling in infra-red spectroscopy. Mention the different parts of infrared spectrophotometer.
3. Define thin layer chromatography. Explain different methods of preparing plates. Give advantages and applications of thin layer chromatography.

Short notes

(14x5=70)

4. Explain chromophore, auxochrome, bathochromic shift and hypsochromic shift.
5. Define quenching and explain its different types
6. Explain any two detectors used in gas chromatography.
7. What are the different parts of a nephelometer and mention its applications
8. Principle of mass spectrometry.
9. Explain the working of dropping mercury electrode.
10. Give different detectors or visualizing agents used in paper chromatography.
11. What are the applications of ion exchange chromatography
12. What are the different types of burners used in flame photometry
13. Give the principle and applications of electrophoresis.
14. What are the different types of columns used in high performance liquid chromatography.
15. Explain briefly the principle of radioimmunoassay.
16. Explain the conductometric method of analysis and mention the applications.
17. What are the different aspects of good laboratory practices.
