

Final Year B.Pharm Degree Supplementary Examinations –

December 2015

PHARMACEUTICAL ANALYSIS - II

Time: 3 Hours

Total Marks: 100

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

Essay

(3x10=30)

1. Explain the theory, instrumentation and applications of flame photometry
2. Explain the principle and instrumentation of fluorimetry in detail.
3. Explain the principle of separation, preparation of column and methods of detection in column chromatography

Short notes

(14x5=70)

4. Types of columns used in gas chromatography
5. What are the different types of stationary phases used in gel filtration. Explain the application of gel filtration in health science.
6. Types of electrodes used in potentiometry
7. Explain the construction and working of a conductometer.
8. Explain the working principle of nephelometer
9. Pharmaceutical applications of polarography
10. Explain any two quantitative methods of UV – visible spectroscopy.
11. Mechanism of ion exchange and its application
12. Detectors used in infra red spectrophotometer.
13. Briefly explain the basic instrumentation of NMR spectrometer
14. Explain the different types of amperometric titration curves with an example.
15. What is radioimmunoassay. Mention the principle, advantages and disadvantages of the same.
16. Explain the working of a hollow cathode lamp.
17. Explain any one ionization technique used in mass spectroscopy
