

Final Year B.Pharm Degree Supplementary Examinations
December 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 spectroscopy. Discuss the principle of ultraviolet spectroscopy. Explain the different parts of a spectrophotometer.
2. Explain the principle of infra-red spectroscopy. Mention the different types of molecular vibrations. What are the applications of infra-red spectroscopy.
3. Define chromatography. What is the principle of paper chromatography. Explain different methods of development and applications.

Short notes

(14x5=70)

4. What are the different types of monochromaters used in visible spectrophotometry.
5. What is the criteria for compounds to be analyzed by gas chromatography. What are the different types of columns used.
6. Explain the factors influencing fluorescence intensity.
7. Compare nephelometry and turbidimetry.
8. What is chemical shift in nuclear magnetic resonance spectroscopy. Give the characteristics of the reference standard used in this method.
9. Explain the types of reference electrodes used in potentiometric titrations.
10. Principle involved in polarographic method of analysis.
11. What is the principle of column chromatography. What are the different types of stationary phase used
12. Classify different types of ion exchangers.
13. Explain instrumentation of high performance thin layer chromatography.
14. Give the principle of flame photometry.
15. Explain briefly the working of a hollow cathode lamp.
16. Explain the principle of gel filtration chromatography.
17. What are the objectives of international conference of harmonization (ICH)
