

Final Year B.Pharm Degree Supplementary Examinations May 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. Discuss applications of ultra violet spectroscopy giving emphasis to different methods of quantitative analysis.
2. Explain applications infra-red spectroscopy. Mention the different types of molecular vibrations caused by infra-red radiations.
3. Give the principle of gas chromatography. Explain different parts of instrument. Explain working of any one detector.

Short notes

(14x5=70)

4. Explain the principle of atomic absorption spectroscopy.
5. Explain the phenomenon of fluorescence and various factors affecting the fluorescence intensity
6. What is the principle of nuclear magnetic resonance spectroscopy
7. What are the different parts of a visible photometer.
8. Instrumentation of mass spectrometry.
9. What are the different types of electrodes used in potentiometry. Explain the working of standard hydrogen electrode.
10. Explain high performance thin layer chromatography
11. Principle and applications of gel filtration chromatography
12. What are the different methods of quantitative analysis in flame photometry
13. Give the instrumentation of paper electrophoresis.
14. What are the different types of pumps used in high performance liquid chromatography.
15. What are the applications of radioimmunoassay.
16. Explain the principle of conductometric method of analysis and mention its applications.
17. What is the method of validation of an analytical procedure.
