

Third Year Pharm D Degree Examinations - October 2013

Pharmaceutical Analysis

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Discuss the factors affecting resolution in a chromatographic technique. Explain construction and working of injection port of an HPLC.
2. Compare and contrast TLC technique with HPTLC technique. Mention the detectors used in GC and explain the working of any one detector
3. Discuss the effect of solvent and pH on UV absorption spectra. Discuss the factors affecting fluorescence.

Short notes

(8x5=40)

4. Explain the construction and working of a pH meter.
5. Compare amperometry with potentiometry
6. Explain the factors affecting polarographic wave.
7. Explain the advantages and disadvantages of electron impact ionization technique
8. Explain the steps involved in equipment validation
9. Explain the principle and applications of atomic absorption spectrometry.
10. Discuss the applications of DSC technique.
11. Explain the electronic transitions taking place when a molecule is exposed to ultraviolet visible radiation
