

Third Year Pharm D Degree Supplementary Examinations - April 2014

**Pharmaceutical Analysis**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Enumerate the qualities that are desirable for a gas that is used as GC mobile phase. Explain the principle and applications of affinity chromatography.
2. Explain the construction and working of any one HPLC detector With a neat diagram. Discuss the various methods of preparation of TLC plate.
3. Explain Beer-Lambert's law and mention its limitations. Explain the different chromatographic development technique employed in paper chromatographic technique.

**Short notes**

**(8x5=40)**

4. Explain the construction and working of differential scanning calorimeter
5. Explain the principle and applications of atomic absorption spectroscopic technique.
6. Explain the sample preparation technique for solid samples in IR spectroscopic analysis.
7. Explain the reciprocal lattice technique.
8. ICH guidelines
9. Explain the methods of detection of end point in potentiometry
10. Explain the principle and application of amperometric technique
11. Explain the principle of electrophoresis technique and mention its applications.

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