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[LB 814] OCTOBER 2012 **Sub. Code: 3814** 

## DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION THIRD YEAR

## PAPER II – PHARMACEUTICAL ANALYSIS

Q.P. Code: 383814

Time: Three Hours	Maximum: 100 marks	
Answer ALL questions in the same orde		
I. Elaborate on :	Pages Time Marks (Max.) (Max.)	
1. Explain the working with the help of a neat, labeled, schematic block diagram of a HPLC and describes its operational modalities briefly. Write the advantages and classification based on mode of separation of HPLC.	17 40 min. 20	
2. Discuss the underlying principle of Atomic Absorption Spectre (AAS). Describe the various components that are essentially in double beam AAS with help of a schematic diagram. How following three types of interferences affect the atomic absorpt spectroscopic methods (a) Spectral interferences (b) Chemical interferences (c) Ionisation interferences.	involved do the	
II. Write notes on :		
<ol> <li>Express Beer-Lambert's Law. Write its limitation, application and deviation.</li> <li>a) Flame ionization detectors.</li> </ol>	4 10 min. 6	
b) What are the various factors affect the separation. of compounds in column chromatography.	4 10 min. 6	
3. Discuss the typical conductrometric titration curves obtained in conductrometric method of analysis and examine them critically with appropriate examples .	4 10 min. 6	
4. Write a note on: (a) Glass electrodes (b) Dropping Mercury Electrons (DME).	4 10 min. 6	
5. Spectrophometric titration.	4 10 min. 6	
6. Sample handling in IR spectroscopy.	4 10 min. 6	
7. What is Fluorescence? What are the various factors affecting the fluorescence intensity?	4 10 min. 6	
8. What is mass spectrum? Write its principle and different type of ions produced in that.	4 10 min. 6	
9. Write a note on DSC.	4 10 min. 6	
10. What is validation? Give a brief account of validation of analytical methods.	4 10 min. 6	