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**B. Pharmacy (Eighth Semester) Examination,  
April-May 2016**

(New Course)

(Branch : Pharmacy)

**PHARMACEUTICAL ANALYSIS-III**

(Instrumental)

*Time Allowed : Three hour*

*Maximum Marks : 70*

*Note : Attempt any five questions. All questions carry equal marks.*

1. Explain principle of UV with special reference to Beer's and Lambert's law. Give instrumentation and working of UV-double beam spectrophotometers. 14

2. What is fluorescence and phosphorescence. Explain quenching, factors affecting quenching and application of fluorimetry. 14
3. Discuss the principle, instrumentation & application of flame photometry. 14
4. (a) Discuss the basic principle and instrumentation of mass spectroscopy. 9  
(b) Write a detail note on McLafferty rearrangement. 5
5. What are chromatography? Explain the principle, instrumentation and application of HPLC. 14
6. What do you mean by chemical shift. Discuss factors affecting chemical shift and application of NMR. 14
7. Write short notes on : (any two) 7×2  
(a) Sample Handling Techniques of IR  
(b) GC detectors  
(c) X-ray diffraction  
(d) IR Detector  
(e) Paper chromatography

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