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[LA 814] **APRIL 2012 Sub. Code: 3814** 

## DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION **THIRD YEAR** PAPER II – PHARMACEUTICAL ANALYSIS

O.P. Code: 383814

Q.P. Code: 383814			
	Maximu	m: 100 ma	arks
Answer ALL questions in the same orde			
I. Elaborate on :	_	Time Mary (Moy)	
1. Explain the theory of IR absorption?  Draw and label IR spectrometer giving details on its componen		(Max.) (N 40 min.	
How is IR spectroscopy applied for qualitative and quantitative analysis of pharmaceuticals.			
2. Write the theoretical aspects, indicator and reference			
electrodes used, and measurement of pH, types of titrations and end point detection and application of potentiometry.	17	40 min.	20
II. Write notes on :			
1. What are the fundamental laws governing UV absorption			
and why do molecules deviate from laws?	4	10 min.	6
2. How does a good laboratory practice performed in an industry?	4	10 min.	6
3. Elaborate on theory of fluorescence. How does a pharmaceutical compound estimated by fluorescence concept?	4	10 min.	6
4. What are amperometric titrations? Add note on advantages			_
and pharmaceutical applications of amperometric titrations.	4	10 min.	6
5. Give note on monochromators and detectors used in UV spectrophotometers.	4	10 min.	6
6. Draw and label a double beam spectrofluorimeter giving its			
advantage.	4	10 min.	6
7. How does the Derivatization and temperature	4	10 '	
programming are used in gas chromatographic analysis.	4	10 min.	0
8. Describe the polarographic principle and factors			
affecting polarographic measurements.	4	10 min.	6
9. What are the differences between atomic absorption			
and flame emission spectroscopy?	4	10 min.	6
10. Give the principle and application of NMR and ESR spectrosco	ppy. 4	10 min.	6

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