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[KZ 814] **OCTOBER 2011 Sub. Code: 3814**

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

O.P. Code: 383814

Q.P. Code: 383814				
Answer ALL questions in the same orde I. Elaborate on :		Pages Time Marks (Max.) (Max.) (Max.)		
 Describe the theory of UV absorption spectroscopy and laws governing, deviation of laws. Draw the diagram of a double beam UV spectrometer and its application in single / multi component analysis. 	17	40 min.	20	
II. Write notes on:				
1. Write on theory, carrier gases and stationary phases used in gas chromatography.	4	10 min.	6	
2. Explicate the types of fluorescence quenching with examples and give the application of fluorimetry to pharmaceuticals.	4	10 min.	6	
3. What are the reference and indicator electrodes used in potentiometric titrations. Explain construction, working and advantages of one electrode from each of the type.	4	10 min.	6	
4. What are the basic components of a HPTLC instrument? Explain the advantages and application of HPTLC in pharmacy.	. 4	10 min.	6	
5. What are the vibrations occur in a molecule on IR absorption? Give the elements of interpretation of an IR spectrum of a molecule.	cule. 4	10 min.	6	
6. Explain the concepts of statistical quality control.	4	10 min.	6	
7. What is conductometric titration? Explain them with suitable examples.	4	10 min.	6	
8. Write on construction, working principle and advantages of a flame ionization detector used in gas chromatography.	4	10 min.	6	
9. Explain the ion exchange mechanism and write on various factors affecting ion exchange process.	4	10 min.	6	
10. Briefly write on the procedure of regulatory control.	4	10 min.	6	
