

[LF 814]

OCTOBER 2014

Sub. Code: 3814

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
THIRD YEAR
PAPER II – PHARMACEUTICAL ANALYSIS

*Q.P. Code : 383814***Time : Three hours****Maximum : 70 marks****I. Elaborate on :****(4 x 10 = 40)**

1. Explain the working principle and instrumentation of double beam UV-Vis spectrophotometer with a neat diagram.
2. Describe the principle, various stationary and mobile phases used, development and detection techniques of TLC.
3. What is electrophoresis? Explain the principle, instrumentation and applications of gel electrophoresis.
4. Explain the principle and various types of interferences that are encountered while performing analysis with flame emission spectroscopy.

II. Write notes on :**(6 x 5 = 30)**

1. Elaborate on the theory of fluorescence. Explain how it can be used for quantification of pharmaceutical compounds.
2. Explain the various sources and detectors used in IR spectroscopy.
3. Write a note on the theoretical aspects of NMR and ES
4. Explain the principle and instrumentation of polarimete
5. Write a note on DME and Ilkovic equation.
6. Define R_f value, retention time, HETP, Bathochromic shift and quenching.
