

[LM 814]

MAY 2018

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. Describe the theory and instrumentation of Flame Photometry.
2. What is thermal analysis? Explain the principle and instrumentation of DSC.
3. Write principle, stationary phase, mobile phase, development techniques and applications of paper chromatography.
4. Explain the different electronic transitions involved in UV spectrophotometry with examples.

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

1. Write a note on DME and Ilkovic equation.
2. Explain the various sources and detectors used in IR spectroscopy.
3. Classify ion exchange resins basing on their structure.
4. Write a note on optical rotator dispersion and circular dichroism.
5. Explain the theory of Gel Filtration Chromatography.
6. What is validation? Give a brief account of validation of analytical method development.
