[LP 814] OCTOBER 2019 **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 construction and working principle of Spectro fluorimeter.
2. Give an account of theory and applications of X-ray diffraction technique.
3. Explain in detail about ion exchange chromatography.
4. What is thermal analysis? Explain the principle and instrumentation of DSC.

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

1. Write briefly on chemical shift in NMR.
2. What are all the validation parameters performed during method development?
3. Write the interference produced in flame photometer. How will you overcome this problem?
4. What are the factors affecting electrical conductivity in solution?
5. Describe the various types of vibration in IR.
6. Write the reason for deviation of Beer's law.

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