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Maximum: 70 marks

 $(4 \times 10 = 40)$

 $(6 \times 5 = 30)$

[LH 814]

OCTOBER 2015

Sub. Code: 3814

PHARM. D DEGREE EXAMINATION

(2009-2010 Regulation)

THIRD YEAR

PAPER II – PHARMACEUTICAL ANALYSIS

Q.P. Code: 383814

Time: Three Hours

Answer ALL questions

I. Elaborate on :

- 1. With a neat labeled diagram, explain the working principle and instrumentation of HPLC.
- 2. Explain the principle and instrumentation of AAS.
- 3. Write in detail the theoretical aspects and applications of NMR.
- 4. What is thermal analysis? Explain the principle and instrumentation of DSC.

II. Write notes on :

- 1. Explain in detail the various factors affecting fluorescence.
- 2. Write a note on monochromator and detectors used in UV spectrophotometer.
- 3. Describe the principle and applications of X-ray diffraction.
- 4. What are the basic components of HPTLC? Write the advantages and applications of HPTLC.
- 5. Write a note on optical rotator dispersion and circular dichroism.
- 6. Explain the various sample handling techniques adopted in IR spectroscopy.
