

[LK 814]

MAY 2017

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 principle and instrumentation of Infrared Spectrophotometer with a neat diagram.
2. Describe the principle and various components of AAS with a neat diagram.
3. Explain the principle and instrumentation of Spectrofluorimeter with a neat diagram.
4. What is Electrode Potential? Describe the construction and working of hydrogen electrode and glass electrode.

II. Write notes on:

(6 x 5 = 30)

1. Write short notes on the various factors affecting the Fluorescence intensity.
2. Explain the principle and applications of Ion exchange Chromatography.
3. Write a note on the theoretical aspects of NMR and ESR.
4. Explain the following terms:
a) Chromophore b) Blue shift c) R_f value
5. Explain the various development techniques and applications of paper Chromatography.
6. Write brief note on Conductometric titrations.
