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(LP 4270)

#### **AUGUST 2019**

Sub. Code: 4270

**Maximum: 100 Marks** 

 $(2 \times 20 = 40)$ 

 $(8 \times 5 = 40)$ 

(10 x 2 = 20)

## B.PHARM. DEGREE EXAMINATION FOURTH YEAR PAPER IV – MODERN METHODS OF PHARMACEUTICAL ANALYSIS

# Q.P. Code: 564270

# **Time: Three hours**

## I. Elaborate on:

- 1. a) Write in detail about the principle and instrumentation of HPLC with a neat diagram.
  - b) Write about the various types of curves in conductometric titrations.
- 2. a) Explain about the principle and instrumentation of fluorimeteb) Explain the factors affecting the fluorescence intensity.

## II. Write notes on:

- 1. Derive an equation for Beer-Lamberts Law.
- 2. Explain the reaction of amino acid with Ninhydrin reagent in paper chromatography.
- 3. Sources used in IR Spectroscopy.
- 4. What are the types of ion exchange resins used in Ion exchange chromatography?
- 5. Write a note on the preparation and activation of TLC plates.
- 6. Short note on coupling constant.
- 7. Write notes on GLP.
- 8. Potentiometric titrations.

# III. Short answers on: 🔊

- 1. Explain Bathochromic shift and Hypsochromic shift.
- 2. Ilkovic equation.
- 3. Define quenching.
- 4. What is Junction potential?
- 5. Define the term retention time, retention volume.
- 6. Define Parent peak.
- 7. Define validation.
- 8. Give the range of I Spectrum.
- 9. What is edge effect?
- 10. Write different techniques in X-ray diffraction.

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