

(LC 4270)

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FOURTH YEAR B.PHARM. EXAM PAPER IV – MODERN METHODS OF PHARMACEUTICAL

ANALYSIS

Q.P. Code: 564270

Time: Three Hours Maximum: 100 marks (180 Min)

I. Elaborate on: (2X20=40)

- 1. Derive an expression for beer-lamberts law and write the general principle, construction working of double beam UV spectrophotomete
- 2. a) Write the principle and applications of counter current extraction and gel filtration.
 - b) Explain the principle and various types of curves in conductometric titrations.

II. Write notes on:

(8X5=40)

- 1. Explain the sample handling techniques in IR spectroscopy.
- 2. Explain the principle involved in nephlo- turbidimetry.
- 3. Write the sampling procedure as per GLP.
- 4. Explain the factors affecting fluorescence intensity.
- 5. What are the different detection techniques used in paper chromatography.
- 6. What are the Pharmaceutical applications of X-ray diffraction?
- 7. What are the different methods available to induce ionization of a sample in mass spectroscopy.
- 8. Explain amperometric titration curves with example.

III. Short Answers on:

(10X2=20)

- 1. Define the term Retention time.
- 2. What is chemical shift in NM
- 3. Explain Bathochromic shift.
- 4. Photoelectric colorimete
- 5. Detectors used in Gas chromatography.
- 6. Give advantages of preparatory HPTLC plates.
- 7. Define singlet and triplet states.
- 8. Define diffusion current and residual current.
- 9. Explain dead stop end point technique.
- 10. Write any two factors which influence vibrational frequencies.
