

(LD 4270)

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

Q.P. Code: 564270

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X20=40)

1. a. Write in details about the principle involved in spectroscopy
b. Write the principle, working principle and application of Nephelo turbidimetry
2. a. Write the theory & Principle in IR Spectroscopy
b. Write the principle and working principle of Gas chromatography with a neat diagram

II. Write notes on:

(8X5=40)

1. Standard calomel electrode
2. Rheodyne injector
3. Electron Capture detector
4. a. Diffraction grating b. Transmission Grating
5. a. M +1 peak b. M + 2 peak c. Base peak
6. Principle involved in paper chromatography
7. Polarography
8. Counter current extraction

III. Short Answers on:

(10X2=20)

1. Nernst Equation
2. Dipole moment
3. Partition coefficient
4. Static Quenching
5. What is deuterated solvents
6. How will you measure cell constant in conductometry
7. R_f , R_x , R_m
8. Principle of separation on GLC
9. Five Examples for non reducible ions.
10. Half wave potential
