

[BPHARM 0122]

JANUARY 2022
(AUGUST 2021 EXAM SESSION)

Sub. Code: 4270

**B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
FOURTH (FINAL) YEAR (Regulation 2009-2010)
PAPER IV – MODERN METHODS OF PHARMACEUTICAL ANALYSIS
Q.P. Code: 564270**

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Explain the Phenomenon of Fluorescence and its application.
b) What is self Quenching? Explain.
c) Draw the neat diagram, explain the construction and working principle of double beam spectrofluorimete
2. Explain in detail about the principle involved in UV spectroscopy and explain the instrumentation of UV spectrophotometer with its schematic diagram.

II. Write notes on:

(8 x 5 = 40)

1. Ion exchange chromatography.
2. Electrophoresis.
3. Write notes on HPTLC.
4. Write notes on TQM.
5. Write notes on Validation.
6. Explain the factors affecting fluorescent intensity.
7. Write notes on ICH.
8. Write notes on Amperometry.

III. Short answers on:

(10 x 2 = 20)

1. Define Ultracentrifugation.
2. Write Nernst equation.
3. Define Dipole moment.
4. Expand ELISA.
5. Define Gel Electrophoresis.
6. Write Ilkovic equation.
7. Define Conductivity.
8. Define the term Luminescence.
9. What is dropping mercury electrode.
10. Define equivalent conductance.