

[Time: 3 Hours]

[Max. Marks: 100]

MODERN PHARMACEUTICAL ANALYSIS (OS & RS)

Q.P. CODE: 7891

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer **FOUR** questions

ANSWER ANY FOUR

4 X 25 = 100 Marks

- Give an account of the principle, instrumentation and applications of UV spectroscopy
 - Add a note on Woodward's rules.
- Write briefly on:
 - ORD
 - FT-IR
 - Reversed phase TLC
 - Student's t-test.
- What do you know of:
 - Spin-spin coupling
 - Spin-spin and spin-Lattice relaxation
 - 2D NMR
 - ^{13}C NMR
- What is chemical ionization mass spectrometry? Discuss the instrumentation and applications of this technique in pharmaceutical analysis. What is FABMS?
- Give an account of:
 - Electrophoresis
 - RP-HPLC
 - Circular dichroism
 - literature sources
- Write short notes on
 - GLC
 - HPTLC

* * * * *