

Raiiv Gandhiwwnfivsensokeyconf Healthy Scikenkeesom First Year M.Pharm Degree Examination - October 2010

[Time: 3 Hours] [Max. Marks: 100]

MODERN PHARMACEUTICAL ANALYSIS

(Revised Scheme 2)

Q.P. CODE: 9201

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

LONG ESSAY (Answer any TWO)

 $2 \times 20 = 40 \text{ Marks}$

- 1. Outline the principle involved in ORD. Explain in detail about its instrumentation and applications
- Explain beer Lamberts law. Describe the working of a UV visible spectrophotometer. Enumerate 2. the applications of UV spectroscopy in pharmacy
- 3. a) Describe the principle and working of quadrupole mass spectrometer and its application
 - b) Discuss the principles and procedure involved in ion exchange chromatography

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Discuss in detail about instrumentation of HPLC
- 5. Define mass fragmentation pattern and PMR spectral features for Butylacetate
- Explain in detail about X –rays generation. Give brief account on X ray powder diffraction 6.
- What is electrophoresis. Explain with example the method of paper electrophoresis 7.
- What is Chemical shift. Write the factors affecting chemical shift 8.
- Discuss the working of FTIR? How is it different from dispersive IR spectrometer 9.

MANFILE **SHORT NOTES** $2 \times 5 = 10 \text{ Marks}$

- 10. Anova
- 11. Thesis writing