

FirstRanker.com Firstranker!s choice Rajiv Gandhiwonfivensokeyconf Health Sciencesom First Year M. Pharm Degree Examination - May 2012

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

MODERN PHARMACEUTICAL ANALYSIS

(RS 2 & RS 3)

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 X 20 = 40 Marks

- With the help of a neat diagram explain the components of a double beam uv-visible spectrophotometer. Discuss the applications of uv-visible spectroscopy in pharmacy
- 2. Discuss the fragmentation types in mass spectrometry with suitable examples. write detailed notes on 'Molecular ion' 'metastable ion'
- Elaborate the principle and theory behind IR spectroscopy. Write an essay on radiation source, 3. monochromators and detectors used in IR spectroscopy

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- Explain the phenomena of optical rotatroy dispersion and circular dichroism
- 5. Describe the following (i) FAB-MS and (ii) MALDI-MS
- Write notes on various techniques used in visualization of spots in TLC with example 6.
- 7. What is the principle involved in gas chromatography and what are its applications
- 8. Explain 'Isoelectric Focusing' and 'Immunoelectrophoresis'
- Discuss 13C-NMR spectroscopy and its applications 9.

SHORT NOTES 2 X 5 = 10 Marks

- What is the principle of X-ray diffraction method
- Write notes on chi-square test 11.

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