

FirstRanker.com Firstranker!s choise Rajiv Gandhiw Mariwa sikey of Health Sciences on Rajiv Gandhiw First Year M.Pharm Degree Examination - Nov 2011

[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

- Explain the theory and principle in HPLC. Write a note on the detectors used in HPLC. What are the applications of HPLC in pharmacy
- Explain the fragmentations rules in mass spectroscopy Predict the fragmentation pattern for 2. 2,2 dimethyl pentane
- Explain the working of a double beam UV visible spectrophotometer with a neat labeled 3. diagram

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- Write in detail about instrumentation of NMR spectrometer 4.
- 5. What is decoupling in NMR spectroscopy? Explain its types
- Write briefly the factors that affect the migration of lons in electrophoresis 6.
- Write a note on development techniques and detection methods used in paper chromatography 7.
- What is miller indices? Give an account of X ray powder diffraction and diffractrometer 8.
- Write a note on spin spin splitting and coupling constant 9.

SHORT NOTES 2 X 5 = 10 Marks

- 10. Chi - square test
- Citation of references 11.

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