

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination – October 2010

[Time: 3 Hours]

[Max. Marks: 100]

ADVANCED PHARMACEUTICAL ANALYSIS

PAPER IV

(Revised Scheme 2)

Q.P. CODE : 9294

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

1. Explain in detail how residual pesticides can be quantitated by mass spectrometry
2. Explain the principle & the methodology involved in the biological assay of
a) Heparin sodium b) Rabies vaccine
3. Explain the methodology & instrumentation involved in the differential scanning calorimetric analysis. Give its important applications in pharmacy

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Give the importance of radiopharmaceuticals with suitable examples
5. Explain the pyrogen test I.P
6. Explain clearly how a UV-VIS spectrophotometer can be validated
7. Give the importance of standard deviation (SD) & relative standard deviation (RSD)
8. Give the microbial assay of any vitamin you have studied
9. Explain how oxytocin is assayed biologically

SHORT NOTES

2 X 5 = 10 Marks

10. Parameters governing the performance of a UV-detector in HPLC
11. Importance of slit-width in UV-spectrophotometer

* * * * *