

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination – Oct/Nov 2014

[Time: 3 Hours]

[Max. Marks: 100]

ADVANCED PHARMACEUTICAL ANALYSIS

PAPER IV

(RS 2 & RS 3)

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. What do you mean by Thermal Analytical Method? Write a detailed note of differential Thermal Analysis (DTA). Add a note on applications of DTA in Pharmaceutical analysis and pre-formulation studies.
2. What is a microbiological assay? Explain in Detail. Write a detailed note on microbiological assay of any antibiotic of your choice.
3. Explain the principle and procedure involved in the biological assay of Gas Gangrene antitoxin.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Write a note on Radioimmunoassay (RIA).
5. Write the principle and procedure involved in pyrogen testing as per I.P.
6. Write a note on Validation parameters of HPLC Method.
7. Write a brief note on drug quantification by mass spectrometry
8. Write the principle and procedure involved in the biological assay of Oxytocin.
9. Write a note on sterility testing.

SHORT NOTES

2 X 5 = 10 Marks

10. Write a brief note on Thermo gravimetric Analysis.
11. Explain briefly the biological assay of Urokinase.

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