

## Rajiv Gandhiw Infirmative Team Health Sciences First Year M.Pharm Degree Examination – May 2011

[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 are pyrogen? Explain its properties and methods of testing as mentioned in pharmacopoeia
- 2. Explain two methods each for determination of heavy metal and pesticide residue in herbal preparations
- 3. Explain the methodology and interpretation of cup plate method of antibiotic assay

## **SHORT ESSAY (Answer any FIVE)**

5 X 10 = 50 Marks

- 4. Explain the principle and procedure of diphtheria antitoxin assay
- 5. Write a note on test for endotoxin
- 6. How is HPLC method validated
- 7. Compare and contrast instrumental and volumetric methods of analysis
- 8. Explain the principle involved in differential thermal analysis of a compound with relevant equations and graphs
- 9. Classify chromatography. Explain qualitative application of planar chromatography

SHORT NOTES 2 X 5 = 10 Marks

- 10. Explain the principles of estimation of sulphanilamide by bratton marshall reagent
- 11. What are the applications of Radio immuno assay

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