

Rajiv Gandhi University of Health Sciences
First Year M. Pharm Degree Examination – May 2012

[Time: 3 Hours]

[Max. Marks: 100]

INSTRUMENTAL METHODS OF ANALYSIS

PAPER III

(RS 2 & RS 3)

Q.P. CODE: 9223

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. Describe the validation of HPLC method. What is the importance of HPLC in pharmaceutical sciences?
2. Discuss in detail the instrumentation and procedure involved in Fluorimetry. Which type of compounds can be assayed by this method? Explain why it is sensitive and selective compare to other methods.
3. Describe the different methods of particle size analysis in solid dosage forms. Explain the importance of Particle size in various dosage forms.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Describe the principles and procedures involved in the various physicochemical methods of Diuretics and Anti-tubercular drugs.
5. Give an account on the determination and significance of C, H and N in Organic compounds.
6. Discuss the principles and procedures involved in the determination of Anabolic steroids and Alkaloids.
7. What is MBTH reagent? Which types of drugs can be determined by this reagent?
8. Write the principles and procedures involved in the determination of –Hydroxyl group, aldehyde and ketones. Give their uses in pharmaceutical analysis.
9. Explain the Determination of cloxacillin and ampicillin in multicomponent dosage forms.

SHORT NOTES

2 X 5 = 10 Marks

10. Write notes on Determination Barbiturates.
11. Write a note on analysis General anesthetic.

* * * * *