

**Rajiv Gandhi University of Health Sciences**  
**First Year M. Pharm Degree Examination – May 2013**

[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. Give the principle, instrumentation details and applications of flame photometry
2. With suitable examples write down the methods chosen for estimating the drugs possessing different functional groups
3. What is validation? Write about the various validation parameters determined for a HPLC assay method

**SHORT ESSAY (Answer any FIVE)****5 X 10 = 50 Marks**

4. Explain quantitative analysis of ibuprofen, paracetamol and chlorzoxazone in multicomponent dosage forms
5. Write down the method of assay of a drug involving fluorimetry
6. Name few local anesthetics. What are the methods available for estimating them
7. Write about the important statistical analysis determined for analytical data
8. Give the principles of assay of drugs with F C and PDAB reagents
9. Explain the methods of estimation of any three alkaloid drugs

**SHORT NOTES****2 X 5 = 10 Marks**

10. Give the applications of Ninhydrin reagent
11. How do you estimate vitamin C

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