FirstRanker.com
Firstranker's choice

www.FirstRanker.com www.FirstRanker.com

Rajiv Gandhi University of Health Sciences

First Year M.Pharm Degree Examination – October 2010

[Time: 3 Hours] [Max. Marks: 100]

INSTRUMENTAL METHODS OF ANALYSIS

PAPER III

(Revised Scheme 2)

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. a) What is the important of particle size analysis? Explain how X-ray diffraction technique is useful for particle size determination
   b) Giving the principle of nephelometry, describe the instrument used for this technique
2. Describe the instrument methods available for the analysis of some member drugs belonging to sulphonamide and barbiturate groups
3. Give the principles involved in the use of the following reagents in pharmaceutical analysis with at least one example for each reagent
   a) Bratton Marshall reagent (b) 2,6 – Dichoroquinone chlorimide (c) MBTH

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

4. Write a note on development of UV- visible spectrophotometric method for analysis of drugs
5. How do you determine vitamin B_1 and B_2 by fluorimetry
6. Name some diuretic drugs. Give the methods of estimation of any two of them
7. Give some qulalitative tests for identification of alkaloids. Write the method of assay of one tropane alkaloid
8. What is the principle of flame photometry? Write down its applications
9. Giving an example, explain the use of Folin – Ciocalteu reagent in drug analysis

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

10. Explain how a drugs containing an aldehyde group can be estimated
11. What is the principle involved in assay of reserpine injection IP 1996

* * * * *

FirstRanker.com
Firstranker's choice
www.FirstRanker.com