

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

[Time: 3 Hours]

[Max. Marks: 100]

CHEMICAL AND BIOLOGICAL EVALUATION**PAPER IV****(RS 2 & RS 3)****Q.P. CODE: 9224**

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. Discuss the SOPs for documentation review, Batch release in finished formulation.
2. Discuss in detail about vendor and warehouse audits.
3. What are the criteria to obtain WHO certification for export of pharmaceuticals?

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

4. How do you store and maintain working reference and Pharmacopoeial standards?
5. How are the volumetric glassware validated? Explain in detail.
6. Discuss the chemical method of analysis of portable water.
7. Discuss the microbial assay of vitamins.
8. Discuss the principles and procedures involved in the biological assay of oxytocin and Urokinase.
9. What are the tests to be adopted for assessing the effectiveness of Antimicrobial preservative?

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

10. Write notes on interpretation of data comparing with other pyrogens tests
11. Write about biological assay of Tetanus Antitoxin.

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