

Rajiv Gandhi University of Health Sciences
First Year M. Pharm Degree Examination – Oct/Nov 2014

[Time: 3 Hours]

[Max. Marks: 100]

MOLECULAR BIOLOGY**PAPER IV****(RS 2 & RS 3)****Q.P. CODE: 9244**

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 structure and function of various organelles of a mammalian cell with a neat labeled diagram. Explain the various phases of cell cycle
2. Describe the single transduction pathway using any one of the receptor
3. What is PCR? Explain the principle, method and application of PCR in Molecular Biology

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

4. Gene therapy
5. Cloning vectors
6. Monoclonal antibodies and their applications in medicine
7. Principle and applications of biosensors
8. Genome mapping
9. Recombinant proteins

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

10. Human genome project
11. Catalytic antibodies

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