



Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination – MAY 2016

[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. Briefly explain the recombinant products in medicine with special reference to vaccines
2. Explain in detail about Polymerase Chain Reaction and Ligation Chain Reaction their applications
3. Write in detail about pharmacokinetics and pharmacodynamics of peptide and protein drugs

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Cellular aging and death
5. Elucidation of genetic code
6. DNA – based diagnosis of genetic diseases
7. Protein engineering
8. Enzymes used in molecular cloning
9. Monoclonal antibodies

SHORT NOTES

2 X 5 = 10 Marks

10. Bio ethics
11. Third messenger

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