

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination – May 2011

[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. Explain briefly about principles, applications and process of recombinant DNA technology
2. a) DNA based diagnosis of genetic diseases
b) Human genome project
3. a) Principles and process of gene cloning
b) Application of cloning vectors

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

4. Animal cell culture
5. Bio sensors
6. Role of DNA technology in monoclonal antibodies
7. Explain the organization of signal transduction
8. Principle and applications of polymerase chain reaction
9. Nucleic acid technology

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

10. Glycobiology
11. Gene expression

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