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Rajiv Gandhi University of Health Sciences

First Year M.Pharm Degree Examination – May 2012

[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 principle, process and icolation of gene cloning of vectors
2. Define Polymerase chain reaction. Explain in detail about polymerase chain reaction technique and its applications. And a note on variants of PCR.
3. a) Pharamacodynamics and immunogenicity of protein therapeutics
   b) Explain the production of growth hormone by recombinant technology

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

4. Biosensors
5. Diagnosis of genetic diseases
6. Discuss DNA sequencing
7. Write a note on enzymes used in molecular cloning
8. Principle and applications of ligation chain reaction
9. Discuss briefly the genetic elements that control gene expression.

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

10. Catalytic antibodies
11. Cell cycle

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