

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

[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. Describe about cell cycle and a note on animal cell culture.
2. Discuss the pharmacokinetics of any two protein drug products
3. Discuss in detail the mapping and cloning of human disease genes.

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

4. Structure and functions of Plasma membrane
5. Antisense technology.
6. Describe the principle of Ligation Chain Reaction and mention its applications
7. Discuss formation and uses of RFLP
8. Monoclonal antibodies
9. Plasmids

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

10. Bioethics
11. Applications of gene cloning

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