

## Rajiv Gandhiwwnfirsensiteycon Healthy Scienceson 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

- Briefly explain the recombinant products in medicine with special reference to vaccines 1.
- 2. Explain in detail about Polymerase Chain Reaction and Ligation Chain Reaction their applications
- 3. Write in detail about pharmacokinetics and pharamcodynamics 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
- Monoclonal antibodies 9.

MANN FIRST Ranker com **SHORT NOTES** 2 X 5 = 10 Marks

- 10. Bio ethics
- 11. Third messenger