



MOLECULAR BIOLOGY

PAPER IV

(Revised Scheme 2)

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 in detail various stages of cell cycle
2. Describe the methods and applications of DNA sequencing
3. Describe different biotechnological techniques associated with the peptide chemistry and peptidomimetics

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Write a note on Human genome project
5. Describe the technique of RFLP
6. What is gene therapy? Mention the types with examples
7. Describe the immunogenicity of protein therapeutics
8. Write a note on the genetic code elucidation
9. Describe various steps involved in animal cell culture

SHORT NOTES

2 X 5 = 10 Marks

10. Cloning vectors
11. Vaccines – rDNA products

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