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Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)

- 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)

- 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 immunogenecity of protein therapeutics
- 8. Write a note on the genetic code elucidation
- 9. Describe various steps involved in animal cell culture

SHORT NOTES

- 10. **Cloning vectors**
- www.first.a.**** 11. Vaccines – rDNA products

2 X 5 = 10 Marks

2 X 20 = 40 Marks

 $5 \times 10 = 50 \text{ Marks}$