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- ❖ Answer Question No.1 Compulsorily (1\*14=14)  
❖ Answer ONE Question From Each Unit (4\*14=56)
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**1. Write short notes on**

1. ESTs
2. Caenorhabditis elegans
3. YAC
4. IRPs
5. Junk DNA
6. DNA chips
7. Cdna
8. Open Reading Frames.
9. Ribozyme
10. Drug uptake
11. Disease genes
12. Metabolomics
13. DNA finger printing
14. Operon

**UNIT I**

- 2.a. Describe in detail prokaryotic gene structure.  
(or)
- b. Discuss regulation of gene expression in prokaryotes.

**UNIT II**

- 3.a. Write an essay on DNA damage and repair  
(or)
- b. Give details of protein-protein interaction

**UNIT III**

- 4.a. Give a detailed account on Human Genome Project  
(or)
- b. Write an essay on micro arrays and their applications.

**UNIT IV**

5.a. Discuss in detail pharmacogenomics.

(or)

b. Give an account of genomics perspectives of Bioterrorism.

c. Give an account of single nucleotide polymorphism.

d. Discuss in detail about drug uptake, action and metabolism.

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