

Note:

Total Marks=60

1. All the questions are compulsory.
2. Figures in right indicate marks.
3. Draw diagrams wherever necessary

Q1(A) Define/Explain (Any 3)

(03)

- 1) Lipids
- 2) FattyAcids
- 3) Nucleotides
- 4) DNA
- 5) r-RNA
- 6) Waxes

Q1(B)Answer the following (Any 2)

(12)

- 1) Explain Structure of Fatty Acids
- 2) Explain Different types of Fatty Acids
- 3) Describe different nitrogen bases of DNA
- 4) Give the functions of DNA and RNA.

Q2(A)Define /Explain (Any 3)

(03)

- 1) Transgenic animals
- 2) Alpha 1 Antitrypsin
- 3) Tissue Plasminogen Activator
- 4) Environmental Biotechnology
- 5) Bioremediation
- 6) Bio Augmentation

Q2(B) Answer the following (Any 2)

(12)

- 1) Explain concept of bioremediation
- 2) Explain any three application of bioremediation
- 3) What are the various ethical issues with respect to gene therapy
- 4) Give detail account of gene therapy for cystic fibrosis with a help of diagram

CPT