

Note:

Total Marks-75

- 1) All the questions are compulsory
- 2) Figure at right indicates marks
- 3) Draw neat diagrams wherever necessary

Q1) Answer the following. (Any 2) (20)

- 1) Describe structure of DNA.
- 2) Describe structure of tRNA
- 3) Write biological role of lipids.
- 4) Explain properties of lipids.

Q2) Answer the following (Any 2) (20)

- 1) Describe the procedure for the production of tissue Plasminogen.
- 2) Explain the Gene therapy for SCID
- 3) Describe the method of Bioremediation of water
- 4) Explain the construction and working of Biogas plant.

Q3) Answer in detail

- 1) Describe Oparin and Haldane's theory of Chemical Evolution (10)

OR

- 1) Explain with examples Natural Selection

- 2) Give an account of different benefits gained by biodiversity (10)

OR

- 3) Give an Account of Future of Evolution

Q4) write short notes (Any 3) (15)

- 1) Gene therapy
- 2) Bioventing
- 3) Migration
- 4) Biowealth of India
- 5) Structure of mRNA
- 6) Difference between RNA and DNA.