



RAN - 2103000206021106

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**T. Y. B. Sc. (Sem. - VI) Examination April - 2023**

**Bioscience (Microbiology) : BS - 606**

**Fundamentals of Bioinformatics**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**सूचना : / Instructions**

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

T. Y. B. Sc. (Sem. - VI)

Name of the Subject :

Bioscience (Microbiology) : BS - 606 Fundamentals of Bioinformatics

Subject Code No.: 2103000206021106

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks of the question.  
(3) Draw neat and labeled diagrams whenever necessary.

**Q. 1. Answer as directed: 12**

1. State the stages of Whole genome shotgun sequencing.
2. Give any two significance of fully automated DNA analyzer.
3. What is DNA microarray?
4. Give the full form of FASTA and BLAST.
5. Explain: Proteomics.
6. Describe in brief Phylogenetic.

**Q. 2. Explain in detail chain termination DNA sequencing method of Sanger. 14**

**OR**

**Q. 2. Write a detail account on Biological database. 14**

**Q. 3. Answer the following questions. (Any Two) 14**

1. Explain - Proteomics. Describe in brief structural and functional proteomics.
2. Write note on GenBank.
3. Describe in brief terminology of phylogenetic tree.

**Q. 4. Write short notes on: (Any Two)**

**10**

1. Forms of tree representation.
  2. Rooted and unrooted phylogenetic tree.
  3. Automated DNA analyzer.
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