B.Sc. (Bio-Tech.)-II Yr.

NS-3464(CV-II)

B.Sc. (Biotechnology) Examination, June-2021

FUNDAMENTAL OF COMPUTERS AND BIOINFORMATICS

(B-201)

(B.Sc. Biotech)

Time : 1½ Hours]　　　　[Maximum Marks : 50

Note : Attempt any **two** questions. **All** questions carry equal marks.

1. Describe in detail the importance of biological databases in bioinformatics.

2. Define bioinformatics. Discuss the role of bioinformatics and genomic data analysis.

P.T.O.

3. Write the names of different system softwares. Also discuss the functions of different computer software.

4. Write detailed note on the following:

   (i) Various number systems used in computer

   (ii) Various generations of computers.

5. What is an internet? Discuss necessary steps to be taken to start internet on your computer. Also discuss the uses of internet communication.

6. Write short note on the following:

   (a) E-mail and its features

   (b) Nucleic acid database

   (c) FTP and HTTP

   (d) Hybrid and Analog computers.

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7. What are BLAST and FASTA? How can these be used for data searching.

8. Write detailed note on the following:

   (i) Importance of sequence analysis in bioinformatics.

   (ii) Bioinformatics and drug discovery

9. Enumerate the significance of computational biology for crop improvement.

10. Write short notes on the following:

    (a) LAN, WAN, MAN

    (b) Basic commands for DOS

    (c) Drug delivery and targeting

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