

**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