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(20622)

Roll No.

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

NS-3464(N)

**B.Sc. (Biotechnology) Examination,
June - 2022**

**FUNDAMENTAL OF COMPUTERS AND
BIOINFORMATICS**

(B-201)

(New)

(B.Sc. Biotech,

Time : Three Hours / [Maximum Marks : 50

Note : Attempt any **five** questions. **All** questions carries 10 marks.

1. What is Bioinformatics? Explain in details different biological databases. 10
2. Differentiate between: 4+3+3
(a) Analog, Digital and hybrid computer

P.T.O.

- (b) Input and Output devices
- (c) Software and Hardware
3. Write short notes on: 5+5
(a) Different basic commands of UNIX
(b) Basic commands for DOS and Linux
4. Explain the following: 4+3+3
(a) Sequence file formats
(b) Generation of computers
(c) Operating system
5. Explain Networking. Write the detail of different types of networking topologies. 3+7
6. Define drug designing. Explain in details different steps of drug designing. 3+7
7. (a) Convert $(1110111)_2$ and $(1101110)_2$ binary numbers to decimal number. 4+4+2

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(b) Convert $(550)_{10}$ and $(293)_{10}$ decimal number to binary number

(c) Convert $(1486)_{10}$ decimal number to octal number.

8. Write short notes on: 5+5

(a) Pairwise and multiple sequence alignments

(b) BLAST and FASTA

9. Classify computers on the basis of their size and computational capabilities. 10

10. Write short notes on:

(a) Internet and Intranet

(b) FTP

(c) WWW