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(Printed Pages 3)

(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

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- (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

**NS-3464(N)/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