(20516)

B.Sc. (Biotech.)-II Year

NS-3464

B. Sc. (Biotechnology) Examination, May 2016

FUNDAMENTAL OF COMPUTERS AND BIOINFORMATICS

(B-201)

(New)

Time : Three Hours] [*Maximum Marks : 50*

Note : Attempt any *Five* questions. Each question carries 10 marks.

1. Explain in detail the various uses of internet in Biotechnology. 10

2. Write short notes on the following : 2½ each

   (a) Virtual library

   (b) Database management systems

   (c) Goals of sequence alignment

   (d) FTP and HTTP.

3. Classify computers and describe in detail about each type of computers. 10

4. Discuss the various applications of bioinformatics in sequence analysis. 10

5. Describe the various number system used in computers in detail. 10

6. Write detailed notes on the following : 5 each

   (a) E-mail and its features

   (b) Input and output devices.

7. Explain the various kinds of topologies used for networking. Also discuss their advantages and disadvantages. 10

8. Explain in detail about the important role of bioinformatics in drug discovery process. 10

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9. Write in detail on the following : 5 each

   (a) FASTA and BLAST

   (b) Importance of sequence analysis in Bioinformatics.

10. Differentiate between the following : 2½ each

   (i) CRT and LCD monitors

   (ii) Static and dynamic allocation

   (iii) Page, frame and segment

   (iv) Primary, secondary and composite databases.