

M.Sc., (Final) Biotechnology Degree Examination

August / September 2009

Directorate of Correspondence Course

(Freshers)

Paper - VII : Computer Application and Bioinformatics

Time : 3 Hours

Max. Marks : 85

Note : 1) Answer all questions

2) Illustrate wherever necessary

1. Explain briefly the following. 5x3=15

- a. Central processing unit
- b. Local area network
- c. Classification of computer systems
- d. http
- e. Global alignment

2. Write short notes on any FOUR of the following 4x5=20

- a. Phylogenetic assay
- b. WAN and MAN
- c. Managing files in explorer
- d. Operating system
- e. Overview of GUI

3. Answer any TWO questions from the following 2x10=20

- a. Explain the pair-wise sequence alignment and consensus expression.
- b. Write an account of Drug designing
- c. Give an account of the softwares used in genomics.

**4. a. Write a detailed protocol of FASTA analysis.
b. Comment on multiple sequence alignment. 5+10=15**

OR

- a. Give an account of basic commands of windows
- b. Write an account on protein structure visualization.

5. Write an account on Database submission and information retrieval. 15

OR

What is WWW? What are the functions of web browser and a search engine? Name some of the popular web browsers and their salient features.
