

No. of Printed Pages : 03

Roll No.

BB-334

M. Sc. EXAMINATION, May 2018

(Second Semester)

(Main & Re-appear)

BIOTECHNOLOGY

BT508MS

Introduction to Bioinformatics

Time : 3 Hours]

[Maximum Marks : 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

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P.T.O.

Unit I

1. Describe databases and data banks. How storing of the sequences in laboratory is done ? **20**
2. What is networking and programming ? What is the difference between internet and intranet ? **20**

Unit II

3. How retrieval of information from databases is done ? What is the significance of this aspect in medical databases ? **20**
4. Describe the following :
 - (a) Statistical significance of alignment
 - (b) Sequence alignment
 - (c) BLAST
 - (d) FASTA.

Unit III

5. What is Phylogenetic Analysis ? Describe various steps in phylogenetic analysis ? **20**

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6. Describe about PHYLIP and PAUP software. **20**

Unit IV

7. What is predictive method ? How nucleotide sequences is searched using this method ? **20**
8. Describe in detail about the protein identity based on composition, Prop search, physical properties based on sequences. **20**

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