



BE-5780

Seat No. _____

B. Sc. (Sem. V) Examination

May / June - 2014

Microbiology

(Subjective Elective Course) (Bioinformatics)

Time : 2 Hours]

[Total Marks : 50

QUESTION 1:

(A) Define any two of the following: (05)

- (i) Proteome.
- (ii) Database.
- (iii) Bioinformatics.

(B) Answer any two of the following: (05)

- (i) Name the main areas of bioinformatics.
- (ii) What is the significance of a database.
- (iii) Define the term: genomics.

QUESTION 2:

(A) Answer any two of the following: (10)

- (i) Write a note on basic computing.
- (ii) Discuss the scope of bioinformatics.
- (iii) Discuss types of primary databases.

(B) Answer any two of the following: (10)

- (i) Write a detailed note on Bioinformatics.
- (ii) Discuss types of secondary databases.
- (iii) Discuss the significance of sequence similarity search.

QUESTION 3:

(A) Answer any two of the following: (10)

- (i) Define the terms: Similarity, Homology,.
- (ii) Discuss the application of sequence analysis.
- (iii) Write a note on NCBI.

(B) Answer any two of the following: (10)

- (i) Write the application and significance of BLAST.
 - (ii) Write a detailed note on FASTA.
 - (iii) Write a note on applications of bioinformatics.
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