



AAN-491

Seat No. _____

B. Sc. (Sem. V) Examination

October / November - 2016

MI-505 : Microbiology

(SE-Bioinformatics)

Time : 2 Hours]

[Total Marks : 50

1 Answer the following MCQs : 10

- (1) What is BLAST?
 - (A) Search Engine
 - (B) Tool for Alignment
 - (C) Database
 - (D) Computer Language
- (2) What is WWW ?
 - (A) World Wide Web
 - (B) World Wild Web
 - (C) World Wide Weather
 - (D) World Web Wide
- (3) What does "B" Stand for in NCBI?
 - (A) Biology
 - (B) Bioinformatics
 - (C) Biotechnology
 - (D) Biochemistry
- (4) BLAST is used to align
 - (A) Lipids
 - (B) Vitamins
 - (C) Nucleic Acids
 - (D) Carbohydrates
- (5) Which of these is NOT a type of BLAST?
 - (A) psi
 - (B) n
 - (C) z
 - (D) p

- 2 Answer any **five** from the following in very short : 10
- (1) Give full forms of: MGD, EMBL.
 - (2) Define: Primary Databases.
 - (3) What is Biocomputing?
 - (4) What is DDBJ?
 - (5) Define: Bioinformatics.
 - (6) Mention the use of SWISS-PROT.
 - (7) Define: Alignment.
- 3 Explain any **two** from the following in detail : 12
- (a) Justify, "Bioinformatics is a Multi-Disciplinary Subject".
 - (b) Write a short note on : NCBI.
 - (c) Types and Classification of Databases.
 - (d) Sequence Comparison : Its types and importance in the field of Bioinformatics.
- 4 Write short notes on any **two** of the following : 18
- (a) Applications of Bioinformatics in Genomics
 - (b) Historical Milestones in Field of Bioinformatics
 - (c) Data Retrieval Tools: Types and Applications
 - (d) BLAST and FASTA.