Roll No. ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚   Total No. of Pages : 02

Total No. of Questions : 09

B.Sc - Honours (Microbiology) (Sem.–5)
COMPUTER SCIENCE AND BIOINFORMATICS
Subject Code : BSMB507-20
M.Code : 92513
Date of Examination : 19-12-22

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. **Write briefly :**

   a) Discuss the CPU functions.

   b) Define DNA.

   c) Define BLAST

   d) What do you mean by data submission tools?

   e) What is FASTA?

   f) Define file formats.

   g) Discuss the input/output devices.

   h) What are the various storages devices?

   i) Enlist the application of computer sciences in bioinformatics.

   j) Highlight the functional units and their interrelation.

SECTION-B

2. Mention the basic computer organization.

3. Elaborate on the phylogenetic trees constitution for microbial diversity.

4. Describe about database similarity search.

5. Mention the multiple sequence alignment for studying microbial diversity.

6. Discuss the various fundamentals of computers.

SECTION-C

7. Discuss in detail about stored programs and applications of database similarity search.

8. Mention in detail about limitations of bio-information's and protein sequence database.

9. What do you know about pair wise sequence alignments and structure databases.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.