

Roll No. ....

Total Pages : 2

**GSM/M-20**

**1642**

**Bioinformatics**

**Paper-IX**

Time Allowed : 3 Hours]

[Maximum Marks : 40

**Note :** Attempt **five** questions in all, selecting at least **two** questions from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Give short answer and abbreviation : 2×4=8

(a) PIR

(b) NCBI

(c) BLAST

(d) PDB.

**UNIT-I**

2. (a) What could be role of Bioinformation in the present scenario of Covid 19? 4

(b) Define 'Information flow in Biology'. 2

(c) Short note on 'File format'. 2

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**P. T. O.**

3. (a) What are Biological database? Give their examples. 3
- (b) Define Protein sequence. Name the various bonds present in a functional protein (globuler). 2,3
4. (a) What do you mean by Primary databases and Secondary databases. 5
- (b) Note on history of Bioinformation. 3

## UNIT-II

5. (a) Give detailed account on sequence alignment. 6
- (b) Name two structural database. 2
6. Write notes on the following :
- (a) Pairwise sequence alignment.
- (b) Multiple sequence alignment. 4×2=8
7. Write an elaborative note on Database searching tool. 8