



CCW-844 Seat No. \_\_\_\_\_

**B. Sc. (Microbiology) (Sem. V) Examination**

October - 2019

**Bioinformatics**

*(Elective)*

Time : Hours] [Total Marks : 50

- 1 Define or explain any **four** of the following 12 terms :
- (a) Bioinformatics.
  - (b) Secondary Database.
  - (c) Local Alignment.
  - (d) Name two internet sites for bioinformatics study.
  - (e) What is GenBank?
  - (f) Proteome and proteomics.

- 2 Answer any **two** of the following : 13
- (a) What is an alignment search tool? Explain it by giving few examples.
  - (b) Give a brief introduction of bioinformatics and its scope.
  - (c) Mention four applications of bioinformatics.
  - (d) Discuss the terms: similarity, homology and identity.

- 3 Answer any **two** of the following : 12
- (a) Write a short note on basic computing.
  - (b) Write about types of databases and their use.
  - (c) Write a short note on Basic Local Alignment Search tool.
  - (d) Discuss the role of bioinformatics websites for study and research.

- 4 Answer any **two** of the following : 13
- (a) Discuss the role of a Biology, Information Technology, and Computer science in bioinformatics.
  - (b) Write a short note on various areas of bioinformatics.
  - (c) Describe in brief FASTA.
  - (d) Discuss about tools of bioinformatics.

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