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Total Pages : 2

Roll No.

MSCZO-603

Bioinformatics, Biostatistics and Computer Application

M.Sc. Zoology (MSCZO)

3rd Semester Examination, 2022 (Dec.)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.
(2×19=38)

1. Discuss various applications of bioinformatics.
2. Give a detailed account of protein sequence database.

3. What is genomics ? Discuss its significance.
4. Explain the algorithm of BLAST.
5. Write an essay on various types of sampling methods.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Discuss gene expression database.
2. Explain proteomics in brief.
3. Describe the role of search engines while using Internet.
4. Write about MSA (Multiple Sequence Alignment).
5. Give various steps used in FASTA search.
6. Comment on Biostatistics as a tool in research.
7. Explain the concept of 'mean, median and mode'.
8. Discuss various methods of studying correlation.