

A-0084

Total Pages : 3

Roll No.

MSCZO-603

M.Sc. Zoology (MSCZO)

(Bioinformatics, Biostatistics)

Examination, June 2025

Time : 2:00 Hrs.

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. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

SECTION-A

(Long Answer Type Questions) 2×19=38

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.

1. Discuss the scope and applications of bioinformatics in field of science and research.
2. What is NCBI ? Enlist its role and functions.
3. Elaborate the process and tools for sequence data submission and non-sequence data submission.
4. Define Chi-square test. Also discuss its common applications.
5. What is correlation ? Describe different types of correlation.

SECTION–B

(Short Answer Type Questions) 4×8=32

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.

1. Write a short note on DNA Microarray.
2. Write a detailed note on DNA Data bank of Japan (DDBJ).
3. Explain the term Molecular Phylogeny. How a phylogeny tree is constructed ?

4. Enlist the applications of biostatics in detail.
5. What is Median ? Explain its merits and demerits.
6. Describe Student t-test and its applications.
7. Enlist in detail the methods of studying correlation.
8. Explain the term Mode and its use.
