A-0106

Total Pages : 3   Roll No. ....

MSCZO–603

M.Sc. ZOOLOGY (MSCZO)

(Bioinformatics, Biostatistics)

3rd Semester Examination, session December 2024

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.   Explain protein sequence database discussing its primary data base and secondary data base

2.   What do you understand by collection of data ? Elaborate the process of collection of primary and secondary data.

3.   Describe the tool BLAST, its type and its uses in detail.

4.   Discuss EBI and its data base services offered.

5.   Explain Mean. Describe the process of calculating mean from grouped data and non- grouped data.

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.   Explain Percent Accepted Mutations (PAM).

2.   Discuss Swiss- Prot and its salient features.

3.   What is sequence analysis ? Explain its applications.

4.   Discuss Human Genome Project.

5. Explain class interval and how it is prepared ?

6. Describe the term central tendency and discuss its types.

7. What is standard deviation ? Explain its merits and demerits.

8. Explain regression analysis and its uses.

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