

A

(20222)

M.Sc.(Bio-Tech.)-I Sem.

(Printed Pages 4)

Roll N

NP-3332 (CV-I),

M.Sc. (Bio-Tech.) Examination, Dec.-2021

Statistical Methods and Bio-Informatics in

Biology

(H-103)

M.Sc. (Bio-Tech.)

Time : 1½ Hours]

[Maximum Marks : 50

Note : Attempt **all** the Sections as per instructions.

Section - A

Note : Attempt any **two** questions. Each question carries 5 marks. Very short answer is required not exceeding 75 words.

1. What are cumulative frequency curves?
2. Define the measures of central tendency.

P.T.O.

3. Differentiate between Randomized Block and Latin Square Design.
4. What are the basic tools of bioinformatics?
5. Differentiate between primary and secondary databases.

Section - B

Note : Attempt any **one** question out of the following three questions. Each question carries 10 marks. Short answer is required not exceeding 200 words.

6. Comment on significance of calculation of Standard Deviation (S.D.) and Coefficient of Variation.
7. Comment on application of Bioinformatics specifying the role of Internet.
8. Comment on TIGR human genome index.

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Section - C

Note : Attempt any **two** questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.

9. With the help of suitable tables and diagrams, describe frequency distributions.
10. Discuss chi-square (χ^2) test and its application.
11. Discuss the principle and types of experimental designs giving their significance.
12. What are the various web browsers and networks which provide required information to the man

13. Discuss techniques of database searching.