

M.Sc. (Part-I) (Zoology) (NEP Pattern) Semester-I
NEP-84-1 / 01MSCZO04-1 - Major Elective Paper-I :
Bioinformatics, Biostatistics and Biotechniques

P. Pages : 1

Time : Three Hours



GUG/S/25/15146

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answers with suitable diagrams.

1. Describe in detail multiple sequence analysis. **16**

OR

- a) Variants of BLAST.
- b) Tree style phylogeny analysis

2. Describe in detail the measures of dispersion. **16**

OR

- a) Presentation of biological data
- b) Mean and median

3. Give an account on determination of regression equation. **16**

OR

- a) Tests of significance.
- b) T-test

4. Give an account on Transmission electron microscopy. **16**

OR

- a) Gel filtration
- b) Principles of centrifuge

5. Attempt the following: **16**

- a) Scope of Bioinformatics
- b) Mean deviation
- c) Correlation
- d) Phase contrast microscope
