

25104

M.Sc. DEGREE EXAMINATION, APRIL 2015.

SECOND SEMESTER

Zoology

Paper IV — BIOSTATISTICS AND BIOINFORMATICS

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

SECTION A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Scope of biostatistics.
2. Simple correlation.
3. ANOVA.
4. F-test.
5. EXCEL.
6. CD-ROM.
7. HTTP.
8. Multiple Sequence Alignment

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Explain the different measures of central tendency.

Or

10. Describe the standard deviation, standard error and standard curves in detail.

11. Write an essay on the elements of probit analysis.

Or

12. Explain the application of chi-square test in the field of biology.

13. Write an essay on the types of operating system.

Or

14. Describe the classification of computers and add a note on the computer generations.

15. Describe the gene bank and protein sequence data base.

Or

16. Write an essay on the importance and status of bioinformatics.

