

45104

M.Sc. DEGREE EXAMINATION, APRIL 2015.

FOURTH SEMESTER

Zoology

Paper IV — BIOINFORMATICS

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks

Each answer should not exceed 1 page.

1. WWW.
2. Data retrieval tools.
3. GenBank.
4. SWISS-PROT.
5. Multiple sequence alignment.
6. Genome.
7. Genechip.
8. SAGE.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Give a brief account on importance of software used in bioinformatics.

Or

10. Discuss the scope and status of bioinformatics at present.
11. Explain the process of submission of a sequence to the data base.

Or

12. Write a detailed account on protein sequence data bases.

13. Write an essay on protein prediction and folding.

Or

14. Discuss the importance of evolutionary trees in genomics.

15. Explain the technology and functions of DNA microarrays.

Or

16. Enumerate the salient features of human genome project.

