

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – NOVEMBER 2009

ZO 3875 - BIOMATHEMATICS

Date & Time: 16/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART A

Answer ALL the questions

10 x 2 = 20 Marks

1. Define bioinformatics.
2. Comment on Data mining.
3. What is a database?
4. Comment on NCBI.
5. Write a note on Human Genome Project.
6. Comment on IP Address.
7. What is a browser? Mention 3 browsers.
8. What is a search engine? List down the name of search engines you know.
9. Differentiate Exons from Introns.
10. Comment on HTML.

PART B

Answer any FOUR

4 x 10 = 40 Marks

11. Write an account on system software and application software.
12. Form an essay on the formation of preliminary mRNA.
13. Elaborate the applications of BLAST.
14. What is called FASTA? Explain.
15. Enumerate points on PROSITE.
16. Write an account on GENBANK.

PART C

Answer any TWO

2 x 20 = 40 Marks

17. Write an essay on local and global alignment of sequences.
18. Write an essay on types of databases.
19. Discuss the applications of bioinformatics.
20. Form an essay on Internet and its uses.
