LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034

B

B.Sc. DEGREE EXAMINATION - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SIXTH SEMESTER - APRIL 2016

AZ 6604/AZ 6601 - BIOINFORMATICS

Date: 18-04-2016	Dept. No.	Max. : 100 Marks
Time: 09:00-12:00	l	1

PART – A

Answer **ALL** the questions:

(10x2=20 marks)

Define / Explain/ Distinguish

- 1. Intron and Extron
- 2. Data base
- 3. PAM
- 4. Gene prediction
- 5. Perfect phylogeny
- 6. Browsers
- 7. Designer drug
- 8. IP address
- 9. Local alignment
- 10. Gene therapy

PART - B

Answer any **FOUR** of the following:

(4x10=40 marks)

- 11. Describe any four types of different biological databases.
- 12. Explain the Amino acid substitution matrices.
- 13. Describe a method of DNA sequencing.
- 14. Describe the connection between multiple alignment and phylogenetic tree construction.
- 15. How do you perform parametric sequence alignment?
- 16. Examine the importance of phylogenetic alignment.

PART - C

Answer any **TWO** of the following:

(2x20=20 marks)

- 17. Give an account on history of internet.
- 18. Explain FASTA and BLAST.
- 19. Describe the DNA mapping and its applications.
- 20. Discuss multiple sequence alignment.

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