LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION –**ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

SIXTH SEMESTER – **APRIL 2018**

AZ 6604– BIOINFORMATICS

Date: 19-04-2018   Dept. No.   Max. : 100 Marks
Time: 09:00-12:00

PART A

Answer **ALL** the questions   **(10X 2= 20 Marks)**

1. What is Bioinformatics?

2. Define HTML.

3. Expand FASTA

4. Expand PAM

5. What is DNA sequencing?

6. Comment on Shotgun.

7. What is Pass?

8. What is String?

9. Local alignment gaps- Justify.

10. Give an account on biological databases.

PART B

Answer any **FOUR** questions   **(4X 10= 40 Marks)**

11. Write a note on history of internet.

12. Explain the algorithms issues in databases search

13. What is large scale sequencing and alignment

14. Write notes on molecular prediction with DNA strings

15. Explain the connection between multiple alignment and tree construction

16. How will you edit distance between two strings?

PART C

Answer any **TWO** questions   **(2X 20= 40 Marks)**

17. Write an essay on database management system?

18. Write short notes on (I) BLAST

    (II) Amino acid substitution matrices PAM and Blossum

19. Discuss prefect phylogeny and phylogenetic alignment

20. Explain parametric sequence alignment and multiple alignment.

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