



QP CODE: 24001183



24001183

Reg No :

Name :

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

B.Sc Biotechnology Model III

CHOICE BASED CORE COURSE - BT6CBT01 - BIOINFORMATICS

2017 Admission Onwards

D8FA1F9A

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Tell the name of the Mother and Father of bioinformatics.
2. Tell the method used for transcriptomics analysis.
3. What is the use of proteomics?
4. Correlate DDBJ and Genbank.
5. Role play of Genpept.
6. Mention the role of dot plots in sequence alignment.
7. Conclude how does BLAST works.
8. Uses of computational biology.
9. Mention the use of rasmol.
10. Mention the role of protein modelling.
11. Mention about BT cotton.
12. Write the role of bioinformatics in basic research.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Prioritize the skills necessary for a good bioinformatician.
14. Use and methods of Genomics in bioinformatics.





15. What is protein submission tool? Explain the major process involved in the submission of protein sequences.
16. Expand EMBL? summarize its important features of sequence submission in bioinformatics..
17. Conclude the different ways of sequence alignment.
18. Define the significance of multiple sequence alignment in biological data analysis.
19. Compare different structure prediction methods.
20. Conclude drug development.
21. Identify the role of Cheminformatics in drug field.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. What are databases? Write the different types of databases with help of suitable examples.
23. Write the differences between local and global alignment in detail.
24. Mention the use of phylogenetic analysis and give an account on tools used in phylogenetics?
25. Summarize an essay on Geoinformatics.

(2×15=30)

