

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE – 1**SEMESTER EXAMINATIONS****APRIL - 2018****15CBT6D****ELECTIVE III : BIOINFORMATICS****Time: 3 Hrs****Max. Marks: 75****SECTION – A (10 X 2 =20)****Answer ALL the questions.**

1. Define biological database.
2. What is DDBJ?
3. Define sequence alignment.
4. What is gap penalty?
5. Define proteomics.
6. What do you mean by gene Expression?
7. Define protein expression profiling.
8. What is DNA microarray?
9. What is protein threading?
10. Define protein-protein interaction?

SECTION – B (5 X 5 =25)**Answer any FIVE of the following questions.**

11. Give an account on the scope of bioinformatics.
12. Explain the features of nucleic acid sequence data base and add a note on EMBL and Gen Bank.
13. Elaborate the role of bioinformatics in research.
14. Describe the dot matrix method of pair-wise sequence alignment.
15. Comment on database retrieval tools.
16. Analyze about Functional proteomics.
17. How do you store information in sequence database?
18. Give an account on protein structure databases.

SECTION – C (3 X 10 =30)**Answer ALL the questions.**

19. a) Comment on protein sequence databases.
(Or)
b) Analyze about multiple sequence alignment.
20. a) Give an account on microarray databases.
(Or)
b) Analyze the life cycle of a protein.
21. a) How do you identify protein-protein interaction?
(Or)
b) Comment on protein-protein docking

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