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D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1

SEMESTER EXAMINATIONS

APRIL – 2017

SBT6A

INTRODUCTION TO BIOINFORMATICS

Time : 2 Hrs

Max. Marks : 50

SECTION-A (10 x 2 = 20)

Answer ALL the questions.

1. How will you define the term "Bioinformatics"?
2. What is a non - redundant and annotated database?
3. What is an alignment? List its uses.
4. Give the types of sequence alignments available and its bioinformatics tools.
5. What is a protein family?
6. What is meant by gene expression and codon bias?
7. List out the uses of microarray.
8. What are all the tools used in proteomics?
9. What is protein expression profiling?
10. What is protein - protein expression?

SECTION- B (3 x 10 = 30)

Answer any THREE of the following questions.

11. Explain biological databases in detail.
12. Write the methods and its procedure used in sequence alignment with examples for each.
13. Explain the life cycle of a protein.
14. Microarray - Explain the procedure and uses in bioinformatics.
15. How is protein - protein interaction identified? Give a detailed account on the identification methods.

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