**Reg. No. \_\_\_\_\_\_\_\_**

**Karunya University**

**(Karunya Institute of Technology and Sciences)**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May 2010**

**Subject Title: BIOINFORMATICS Time: 3 hours**

**Subject Code: 09BI243 Maximum Marks: 100**

#### **Answer ALL questions**

**PART – A (10 x 1 = 10 MARKS)**

1. Define Archaebacteria.

2. What is a Virus?

3. Define Genetic Code.

4. Write about Cell Signaling.

5. Define SRS.

6. Enumerate Sequence Databases.

7. Write down the features of MEROPS.

8. Name any two disease database.

9. Define Dynamic Programming.

10. Write down about PAM.

**PART – B (5 x 3 = 15 MARKS)**

11. Write down about genetic contents of a cell.

12. Define Splicing.

13. What is meant by Information Retrieval systems?

14. List out the details of Enzyme databases.

15. Write about probabilistic algorithm.

**PART – C (5 x 15 = 75 MARKS)**

16. Compare and contrast Mitochondira and Chloroplasts.

(OR)

17. Discuss in detail about prokaryotic and eukaryotic cell..

18. Write about Genome and Gene expressions.

(OR)

19. Discuss in detail about the processing of RNA.

20. Discuss in detail about Sequence databases.

(OR)

21. Write down about categorizing and navigation of bioinformatics databases.

22. Discuss about Enzyme databases and Pathway databases.

(OR)

23. What is a specialized database? Explain with examples.

24. Explain about Data analysis algorithm in detail.

(OR)

25. Write a note on a. Greedy algorithm b. Probabilistic algorithm