

Code: 9A23601

B.Tech III Year II Semester (R09) Supplementary Examinations December/January 2015/2016

COMPUTATIONAL MOLECULAR BIOLOGY

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Explain various applications of computational technology in molecular biology.
- 2 Discuss a typical DNA sequence assembly protocol.
- 3 Write a note on different types of microarrays and add a note on their applications.
- 4 Write a detailed note on protein structural organization.
- 5 Explain the sequential steps involved in homology modeling of a protein.
- 6 What is a Phylogenetic Tree? Explain various applications of Phylogenetic Trees.
- 7 What is a dendrogram? Explain various applications of dendrogram.
- 8 Explain a typical traditional drug discovery cycle in a pharma industry.
