Code: 9A23601

R09

B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2017
COMPUTATIONAL MOLECULAR BIOLOGY
(Biotechnology)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1   Explain in detail about comparative genomics and its applications.

2   Explain various methods to study gene expression.

3   Explain in detail various types of microarrays and their applications.

4   Write in detail about determination of protein structure and function.

5   Describe various steps involved in homology modeling.

6   Write short notes on the following:
  (a) Molecular evolution.
  (b) Types of trees.

7   What are dendrograms and their uses?

8   Explain the role of bioinformatics in drug discovery cycle.

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