

Code: R7412301

R07

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

**BIOINFORMATICS**

(Biotechnology)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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- 1 Write an account on "primer on information theory".
- 2 Explain in detail comparative modeling and write short note on molecular modeling databases.
- 3 How can you align the maps by using bioinformatics tools?
- 4 Write short notes on the following:
  - (a) PAM
  - (b) Global sequence alignments
- 5 What are various primary databases? Explain in detail any four primary databases.
- 6 Write in detail on secondary databases used in bioinformatics.
- 7 Write short notes on the following:
  - (a) KEGG
  - (b) BRENDA
- 8 Write in detail about sequence alignment databases.

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