

**R09**

Code: 9A23701

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017

**BIOINFORMATICS**

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) How is internet useful for a biologist?  
(b) Explain scope of bioinformatics.
- 2 Explain different applications of computational tools.
- 3 Write about the following:  
(a) DNA mapping.  
(b) Sanger and Gilbert methods for DNA sequencing.
- 4 (a) Describe about Heuristic alignment algorithm.  
(b) Explain PAM
- 5 Write in detail the following:  
(a) NCBI.  
(b) PDB.
- 6 (a) Write about secondary databases.  
(b) Explain KEGG and Swiss-Prot.
- 7 (a) Write about WIT.  
(b) Describe management of databases.
- 8 Explain multiple sequence alignment and phylogenetic analysis.

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