

R09

Code No: 56077

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2019

BIOINFORMATICS

(Bio-Technology)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Write about various network protocols along with their functions.
b) Describe scope of bioinformatics. [8+7]
- 2.a) Write about comparative sequence analysis.
b) Write about genome mapping. [8+7]
3. Write about the following:
a) BLAST
b) FASTA
c) PAM. [5+5+5]
- 4.a) Write about few primary data bases and their function.
b) Describe molecular modeling databases. [8+7]
5. Write about the following:
a) Swiss prot
b) PIR [7+8]
6. Write about the role of multiple sequence alignment in phylogenetic analysis. [15]
7. Write in detail about:
a) KEGG
b) BRENDA [8+7]
- 8.a) Write a note on homology modelling of proteins and discuss the role of RasMol.
b) Describe levels of protein structures. [8+7]

---ooOoo---