

Total No. of Questions :6]

SEAT No. :

P 66

[Total No. of Pages : 2

APR-17/BE/Insem-76

B.E. (Information Technology) (Semester - II)

BIOINFORMATICS

Elective (a) (2012 - Pattern)

Time : 1 Hour]

[Max. Marks :30

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.*
- 2) Figures to the right side indicate full marks.*
- 3) All questions carry equal marks.*
- 4) Assume suitable data if necessary*

Q1) a) Explain different protein structure data base with example. **[5]**

b) Explain Bioinformatics application related to following area : **[5]**

- i) Sequence assembly
- ii) Pharma coge nomics

OR

Q2) a) Explain molucules participating in information flow and the various functional sites. **[5]**

b) Describe different type of protein structure classifications with example. **[5]**

Q3) a) Explain microarray spotting process in detail with diagram **[5]**

b) Differenciate between cluster's & classification. Discuss in brief decision tree. **[5]**

OR

P.T.O

Q4) a) List various statistical analysis tools. What is meant by sensitivity & specificity of a tool [5]

b) What is structure visualization explain any two rendering tools in structure visualization. [5]

Q5) a) Explain different variety of techniques involved in processing of NLP [5]

b) Write short note on i) PAM ii) BLOSUM [5]

OR

Q6) a) Write a short note on statical methods for data mining [5]

b) Explain major steps in pattern recognition & Discovery process with diagram. [5]

