

Total No. of Questions :2]

SEAT No. :

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P3120

[5036] - 305

M.Sc.

BIOTECHNOLOGY

BT - 305 : Bioinformatics

(2013 Pattern) (Part - II) (Semester - III)

Time : 1½ Hours]

[Max. Marks :25

Instructions to the candidates :

- 1) All questions are compulsory.*
- 2) Draw neat diagrams wherever necessary.*
- 3) Figures to the right indicate full marks.*

Q1) Solve any three of the following:

[3×5=15]

- a) What is scoring matrix? Discuss BLOSUM in detail.
- b) How molecular interactions are simulated using structure?
- c) Explain protein profiles and give its applications.
- d) Explain role of immunoinformatics in vaccinology.
- e) Write short note on
 - i) Pub Med central
 - ii) P I R

Q2) Solve any one of the following.

[10]

- a) What is phylogeny? Explain Neighbour Joining method of tree construction. Give its advantages.
- b) What is FASTA? Write its role in homology searching. Give its advantages and limitations.

