Total No. of Questions :2]

P1851

SEAT No. :

[Total No. of Pages :1

[5232] - 305

M.Sc.

BIOTECHNOLOGY

BT - 305 : Bioinformatics

(2013 Pattern) (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 questions of the following: **[3 × 5 = 15]**

    a)   Write a short note on CATH.

    b)   What is bioinformatics? Write its applications.

    c)   Explain multiple sequence alignment. Write its applications.

    d)   What are protein motifs? How they are used for protein classification?

    e)   What is gene annotation? Add a note on its significance.

Q2) Answer any one of the following: **[1 × 10 = 10]**

    a)   Explain in detail about bioinformatics tools used for microarray based gene expression analysis.

    b)   Explain Ramchandran Plot comment about the structure & physicochemical properties of the proteins.

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