(2)

JK-460

Total No. of Printed Pages: 4

JK-460

M.Sc. IIIrd Semester Examination, 2016

Biotechnology

Paper - II

Biostatistics & Bioinformatics

Time: 3 Hours

) Total No. of Questions: 5

|Maximum Marks: 85

Note :- Attempt one questions from each. All question carry equal marks.

Unit - I

1. Explain different methods of collection, classification tabulation of numerical data.

OR

Write short notes on any four of the following :-

Measures of central tendency (i)

P.T.O.

- Quartile deviation (ii)
- Ceofficient of Variation
- Addition theorem of probability
- Properties of probability deveity (v)

Unit - II

2. Describe probability distribution and its application in detail.

OR

Write short notes on any four : COM

- Chi-square test
- (ii) Standard error
- (iii) Co-relation & Regression

Unit - III

3. Describe biological databases their role and scope.

OR

Write notes on any four :-

- Hidden Markov model.
- (ii) Uniprot KB
- (iii) Chem spider

onlineBU.com

onlineBU.com

onlineBU.com

(iv) Clustal W

1 1

(v) Application of Bioinformatics

Unit - IV

4. Describe multiple sequence aligument, its ports and importance.

OR

Write notes on any four :-

- (iii) FASTAlineBU.com
- (iv) Phylogenetic analysis
- (v) Primer Decigency tools

Unit - V

5. Describe folding of protein and molecular docking in detail. Also their methods.

OR '

Write short notes on any four :-

(i) Chemoketch

P.T.O.

onlineBU.com

(4)

JK-460

- (ii) Argus lab
- (iii) Homology modelling
- (iv) Drug designing
- (v) Theories of protein folding.

onlineBU.com

+++

Copies 800

onlineBU.com

onlineBU.com

onlineBU.com