

Dr. V.S. Krishna Government Degree College and PG College (A)

Department of Biotechnology

SEMESTER V

Course VI

BIOINFORMATICS AND BIostatISTICS

Time: 3hrs

Max Marks: 75

Section – A

Answer ALL questions

5 x 10 = 50 Marks

1. a) What is bio informatics ? Briefly describe the tools in Bioinformatics.

OR

b) Explain specialized genome data base

2. a) What are Biological Data Bases and mention its Types with examples

OR

b) Write a detailed account of Protein databases with examples.

3. a) Briefly describe about different File formats with examples.

OR

b) Describe various methods of searching Metadata briefly.

4. a) Explain variance and standard deviation.

OR

b) Give detailed account of ANOVA.

5. a) Define Probability and Mention the laws of probability

OR

b) Give detailed account on normal distribution and Poisson distribution.

Answer any FIVE of the questions:

5 x 4 = 20 Marks

6. Rasmol

7. What is multiple sequence alignment

8. PDBsum

9. General introduction of SNP, EST

10. Explain local alignment

11. Seq VISTA

12. Tabulation of data

13. Student's t Test