

BLDE (DEEMED TO BE UNIVERSITY)
Master of Science in Microbiology/ Biotechnology

[Time: 3 Hours]

[Max. Marks: 80]

I SEMESTER

PAPER – IV (Biostatistics, Bioinformatics)

QP CODE: 7614/7814

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Question (Any – 3)

10 X 3 = 30 Marks

1. Explain in detail about types of database with examples
2. Define Z test and its application
3. Application of bioinformatics
4. Explain data representation of statistics

Short Essays: (Any – 7)

5 X 7 = 35 Marks

5. Write about sequence alignment
6. Explain types of scoring matrices
7. Application of bioinformatics
8. Explain Measures of variability
9. Application of statistics in Research
10. Difference between sequence homology and sequence identity
11. Correlation and Types of correlation
12. Types of BLAST

Short Answers: (Any – 5)

3 X 5 = 15 Marks

13. FASTA sequence
14. Active site of protein
15. Secondary structure of protein structure
16. PAM matrices
17. Multiple sequence alignment
18. Define Type I error and Type II error