

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2015

(CUCSS)

Microbiology

MB 4C 11—BIostatistics and Bioinformatics

Maximum : 36 Weightage

Time : Three Hours

Part A

*Answer all questions.
Each question carries 1 weightage.*

1. Null hypothesis.
2. Mean.
3. Standard error.
4. Mega BLAST.
5. E value.
6. UPGMA.
7. Molecular docking.
8. Product rule of probability.
9. RASMOL.
10. Bankit.
11. Expasy.
12. Mean sum of square.
13. Maximum parsimony.
14. paralogues.

(14 x 1 = 14 weightage)

Part B

*Write short notes on any seven.
Each question carries 2 weightage.*

15. Z distribution.
16. Search engines.
- 17 Measures of dispersion.
18. Nonparametric statistical tests.

Turn over

19. Composite data bases.
20. Clustal.
21. Molecular clock hypothesis.
22. Local alignment v/s global alignment.
23. Coefficient of dispersion.
24. PUBMED.

Part C

(7 x 2 = 14 weightage)

*Answer any **two** questions.
Each question carries 4 weightage.*

25. What are the main public databases of nucleic acids ?
26. What is meant by sampling ? What are the factors to be taken care while sampling ?
27. Briefly explain the significance of statistics and hypothesis testing in biological studies.

(2 x 4 = 8 weightage)