

25064

M.Sc. DEGREE EXAMINATION, MARCH/APRIL 2019.

SECOND SEMESTER

Microbiology

Paper IV — BIostatistics, Research Methodology and Bioinformatics

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Arithmetic mean
2. MLR
3. Literature survey
4. Analysis of problem
5. Hardware
6. PPT
7. NCBI
8. *In silico* analysis.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Discuss about linear regression.

Or

10. Write the role of *t* test for multiple comparisons.

11. Write the technical report for publication in scientific journals.

Or

12. List out various national and international funding agencies for life sciences research.

13. Describe various components of computer system.

Or

14. Discuss about special softwares used for microbiological approach.

15. Discuss about *ab initio* methods for determining protein structure.

Or

16. Comment on various visualization tools.

