2022

M.Sc.

2nd Semester Examination

MICROBIOLOGY

PAPER—295

(Practical)

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

UNIT-295.1 REVIEW WORK AND SEMINAR

1. Present and discuss your topic of review -

   (a) Submission   7

(b) Presentation   7

(c) Viva voce   6

(d) Internal Assessment   5

UNIT–295.2 BIOMATHEMATICS AND BIOINFORMATICS

1. From the supplied data determine mean, median, mode, standard deviation of the distribution. Save the file on your computer with your roll number. Write the procedure in your script.

1.5+1.5+1.5+1.5+1.5

Or

From the supplied data prepare a suitable graphical representation and save the file on your computer with your roll number. Insert the graph in an MS-Word file. Write the procedure in your script.   4+2+1.5

2. Download the FASTA sequence of supplied accession numbers and perform pairwise

alignment. Save the file on your computer with your roll number. Comment on the result.

2+3+2.5

Or

Search the supplied accession numbers in NCBI and download the FASTA sequence. Perform multiple sequence alignment using these sequences. Save the file on your computer with your roll number.　　　　　　2+2.5+3

3. Viva-voce　　　　　　　　　　　　　3

4. Laboratory note book　　　　　　　2

5. Internal assessment　　　　　　　5

———