

2025

**M.Sc. 1st Semester Examination**

**BIOTECHNOLOGY AND  
BIOINFORMATICS**

**Paper : BTIE404A8**

**[Microbiology and Microbial Physiology]  
(Practical)**

**Full Marks : 25**

**Time : Two Hours**

*The figures in the margin indicate full marks.*

**Group - A**

1. Distinguish Gram negative and Gram positive bacterial of supplied sample through Gram staining.

[Principle - 1, Process - 5, Result - 1, Comment - 1]

8

**Group - B**

2. Estimate Colony Forming Unit (CFU) of the supplied soil sample.

[Principle - 1, Process - 4, Result - 2]

7

3. Laboratory Notebook

5

4. Viva-voce

5