

2025

M.Sc. 1st Semester Examination

**BIOTECHNOLOGY AND
BIOINFORMATICS**

Paper : BTIE405A8

[Analytical Biochemistry]

(Practical)

Full Marks : 25

Time : Two Hours

The figures in the margin indicate full marks.

1. Estimate the saponification value of supplied fat sample.

[Principle - 3, Result and Comment - 3] 6

2. Determine the molecular weight of protein by SDS-PAGE.

[Principle - 3, Result and Calculation - 4, Work - 2] 9

3. Laboratory Notebook 5

4. Viva-voce 5
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**BIOTECHNOLOGY AND
BIOINFORMATICS**

Paper : BTIE405A8

[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]

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Group - B

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

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

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3. Laboratory Notebook

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4. Viva-voce

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