



Department of Genetic Engineering and Biotechnology
Faculty of Health and Life Sciences
B. Sc. (Hons.) in Genetic Engineering and Biotechnology
Midterm Examination Fall 2025

Course Code: 0512-1203
Level and Term: L1, T2
Time: 1 Hour 30 Minutes

Section: 252 (A+B)

Course Title: Basic Microbiology
Course Teacher Initials: DSR & DNH
Total Marks: 25

Splitting any answer is strictly prohibited

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|---|--|-------|
| 1 | (a) Define Microorganism and Microbiology. [CLO1, PLO2, C1] | 2 |
| | (b) Write the contributions of Antonie van Leeuwenhoek, Luis Pasteur, Edward Jenner, and Alexander Fleming in microbiology. [CLO1, PLO2, C1] | 3 |
| 2 | (a) Explain the main principles of the Germ Theory of Disease. [CLO1, PLO1, C2] | 3 |
| | (b) Write a short note on the scope of environmental microbiology. [CLO2, PLO1, C3] | 2 |
| 3 | (a) Name the major types of microorganisms. [CLO2, PLO1, C2] | 1 |
| | (b) State the key features of bacteria with structure. [CLO1, PLO2, C2] | 4 |
| 4 | (a) What are viroids and prions? [CLO1, PLO1, C2] | 2 |
| | (b) Illustrate the structure of a virus and describe the key characteristics of viruses. [CLO1, PLO2, C2] | 3 |
| 5 | (a) Discuss the classification of microorganisms based on temperature. [CLO2, PLO2, C2] | 3 |
| | (b) Write the application of microorganisms in the field of Biotechnology. [CLO2, PLO2, C2] | 2 |