



Department of Genetic Engineering and Biotechnology
Faculty of Health and Life Sciences
B. Sc. (Hons.) in Genetic Engineering and Biotechnology
Midterm Examination Fall 2026

Course Code: 0512-1305

Course Title: Animal and Human Physiology

Level and Term: L-1, T-3

Section: 261-A

Course Teacher Initials: HKC

Time: 1 Hour 30 Minutes

Total Marks: 25

Marks

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| 1. (a) Define physiology. How do you classify physiology on the basis of organisms and scopes? | [CLO1, PLO2, C1] | 3 |
| (b) Illustrate the structural concept map of human physiology. | [CLO1, PLO2, C2] | 2 |
| 2. (a) How would you explain osmoregulation in marine environment. | [CLO1, PLO2, C1] | 3 |
| (b) Simplify osmoregulation with a very brief illustration. | [CLO1, PLO2, C4] | 2 |
| 3. (a) Construct an illustration on respiratory system and main functions. | [CLO1, PLO2, C3] | 4 |
| (b) Briefly relate the nervous regulation and respiratory system. | [CLO1, PLO2, C2] | 1 |
| 4. (a) What is pulmonary circulation? Briefly discuss the process with figures. | [CLO1, PLO2, C1] | 3 |
| (b) Explain and relate the chemical regulation and respiratory system. | [CLO1, PLO2, C2] | 2 |
| 5. (a) Recommend the fate of blood cells with proper justifications. | [CLO1, PLO2, C5] | 3 |
| (b) Discuss and clarify the generation and conduction of cardiac impulse. | [CLO1, PLO2, C6] | 2 |