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Daffodil International University

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

Course Code: 0512-1305
Level and Term: L1, T3
Time: 1 Hour 30 Minutes

Section: 252 (A+B)

Course Title: Animal and Human Physiology
Course Teacher Initials: KMH & AI
Total Marks: 25

				Marks
1	(a)	Explain the major branches of Animal and Human Physiology.	[CLO1, PLO1, C2]	3.0
	(b)	State the scope and opportunities of studying Physiology.	[CLO1, PLO1, C5]	2.0
2	(a)	List the components of blood and explain the mechanism of blood clotting.	[CLO3, PLO2, C1]	3.0
	(b)	Classify human blood groups with examples.	[CLO2, PLO2, C4]	2.0
3	(a)	Describe the structure and properties of cardiac muscle. 2.5	[CLO5, PLO2, C3]	2.5
	(b)	Diagrammatically show the cardiac conduction system.	[CLO2, PLO1, C4]	2.5
4	(a)	Describe the parts of the respiratory system and explain their functions.	[CLO3, PLO1, C2]	2.5
	(b)	Discuss the structure of kidney. 20	[CLO2, PLO2, C6]	2.5
5	(a)	Explain the urine formation mechanism in mammals.	[CLO1, PLO2, C5]	2.5
	(b)	Briefly discuss osmoregulation mechanism in freshwater and marine organisms. 20	[CLO2, PLO1, C6]	2.5