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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
Final Examination Summer 2026

Course Code: 0512- 1305 **Course Title:** Animal and Human Physiology
Level and Term: L-1, T-3 **Section: 253 (A+B)** **Course Teacher Initials: DZI**
Time: 02 Hours **Total Marks:** 40

Answer the following questions:

			Marks
1	(a)	Define Digestion. Illustrate the processes of the digestive system.	[CLO1, PLO1, C1] 2.0
	(b)	Explain the swallowing mechanism of the digestive system.	[CLO3, PLO1, C1] 3.0
	(c)	How do hormone regulators control the digestive process?	[CLO1, PLO1, C1] 3.0
2	(a)	Define the reproductive system. State the functions of the male reproductive organs.	[CLO2, PLO1, C1] 2.0
	(b)	State the essential steps of spermatogenesis.	[CLO1, PLO1, C1] 3.0
	(c)	Explain the structure of the ovary and the ovulation process.	[CLO3, PLO1, C2] 3.0
3	(a)	Show the major events in the female reproductive cycle.	[CLO1, PLO1, C2] 3.0
	(b)	What is gonadotropic hormone? Outline the functions of Follicle-stimulating hormone (FSH)?	[CLO2, PLO1, C2] 2.5
	(c)	Elaborate the functions of testosterone. Explain the disorder due to low and high production of the testosterone hormone	[CLO2, PLO1, C2] 2.5
4	(a)	Explain the term hormone. Discuss the functions of the endocrine system.	[CLO1, PLO1, C3] 2.0
	(b)	Write the mechanisms of the control system of hormonal secretions.	[CLO1, PLO1, C3] 3.0
	(c)	Compare between exocrine and endocrine glands.	[CLO1, PLO1, C4] 3.0
5	(a)	List the functions of the human skin.	[CLO2, PLO1, C4] 2.5
	(b)	Write about the electrical synapse and the features of electrical synapses.	[CLO1, PLO1, C5] 3.0
	(c)	Justify why action potentials travel faster on myelinated axons than on unmyelinated ones?	[CLO3, PLO1, C6] 2.5