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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 Fall 2025

Course Code: 0512-1305 **Course Title:** Animal and Human Physiology
Level and Term: L-1, T-3 **Section: 251 (A+B)** **Course Teacher Initials: KMH + DSR**
Time: 02 Hours **Total Marks: 40**

Splitting any answer is strictly prohibited

			Marks
1.	(a)	Compare osmoregulation in aquatic and marine environments.	[CLO1, PLO2, C4] 4.0
	(b)	Define digestion. Illustrate the human digestive system with a labeled diagram.	[CLO3, PLO2, C2] 4.0
2.	(a)	Briefly discuss the types and functions of carbohydrase, protease, lipase, and nuclease enzymes.	[CLO5, PLO2, C6] 4.0
	(b)	Explain the physiology of carbohydrate digestion and absorption.	[CLO1, PLO2, C2] 4.0
3.	(a)	Illustrate the journey of proteins from digestion to metabolism.	[CLO2, PLO2, C2] 4.0
	(b)	Briefly discuss the roles and functions of sex hormones in males and females.	[CLO3, PLO2, C6] 4.0
4.	(a)	Compare and contrast the major endocrine and exocrine glands in humans.	[CLO1, PLO2, C5] 4.0
	(b)	List the hormones secreted by the hypothalamus & the anterior and posterior pituitary glands, and mention their major functions.	[CLO3, PLO2, C1] 4.0
5.	(a)	Mention the main components of nervous system. Draw and label a neuron.	[CLO2, PLO2, C3] 4.0
	(b)	Compare the nervous system and the endocrine system with respect to their modes of communication with target cells.	[CLO2, PLO2, C2] 4.0