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 Spring 2026

Course Code: 0512-1305 **Course Title:** Animal and Human Physiology
Level and Term: L-1, T-3 **Section: 252 (A+B)** **Course Teacher Initials:** KMH & AR
Time: 2 Hours **Total Marks:** 40

1.	a)	Define the digestive system. Enumerate the major organs of the human digestive system and describe their respective functions.	[CLO3, PLO1, C1]	4.0
	b)	Classify digestive enzymes with suitable examples. Discuss the biotechnological applications of digestive enzymes.	[CLO1, PLO7, C2]	4.0
2.	a)	Illustrate the processes of carbohydrate digestion and absorption in mammals.	[CLO1, PLO1, C3]	4.5
	b)	Enlist the key enzymes involved in fat digestion. Explain the role of bile in fat digestion.	[CLO3, PLO2, C1]	3.5
3.	a)	Categorize the physiology of the male and female reproductive systems. Illustrate, with a diagram, the hormonal control in males.	[CLO2, PLO1, C4]	4.5
	b)	Explain the physiology of puberty in males and females. List the factors affecting the onset of puberty.	[CLO4, PLO1, C2]	3.5
4.	a)	Enlist the major endocrine and exocrine glands in humans, providing suitable examples.	[CLO1, PLO2, C4]	4.0
	b)	Discuss the sex hormones in human males and females, and state their respective functions.	[CLO1, PLO1, C6]	4.0
5.	a)	Briefly discuss the central and peripheral nervous systems in humans.	[CLO5, PLO1, C6]	5.0
	b)	Write a short note on "neuron".	[CLO1, PLO2, C5]	3.0