ourdiu.com | Shared by Moinuddin Hasan Chisty

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