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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: 0512-2105 | Section: 251 (A+B) | Course Title: Animal Breeding
Level and Term: L-2, T-1 | Course Teacher Initials: KMH, SDP
Time: 1 Hour 30 Minutes | Total Marks: 25

				Marks
1	(a)	Define animal breeding and discuss its application.	[CLO2, PLO1, C1]	3
	(b)	Why does domestication matter? Elaborate on the biological mechanisms involved and the impacts of domestication on animals.	[CLO1, PLO1, C6]	2
2	(a)	Discuss the core functions and mechanisms of breed association. State the organizational structures of breed association worldwide.	[CLO2, PLO2, C6]	3
	(b)	Enlist the various selection methods used in farm animals and present a comparison.	[CLO4, PLO1, C4]	2
3	(a)	Define the terms inbreeding, outbreeding, crossbreeding, and grading up, and discuss their effects in animal breeding.	[CLO2, PLO1, C1]	3
	(b)	What do you mean by breed? Explain the breed structure of Bangladeshi indigenous cattle and describe global breed patterns.	[CLO6, PLO1, C5]	2
4	(a)	Explain the chromosomal mechanisms of sex determination in farm animals.	[CLO1, PLO1, C2]	2
	(b)	Elaborate the concepts of sex-linked and sex-influenced traits in farm animals.	[CLO1, PLO1, C5]	3
5	(a)	Demonstrate the guidelines for using biotechnology in the development of breeding programs, with reference to reproductive biotechnologies, gene editing & genetic modification, and associated ethical principles.	[CLO6, PLO2, C2]	3
	(b)	Illustrate the following short notes: (i) Freemartin (ii) Super-Sexes	[CLO1, PLO1, C2]	2