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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 Spring 2026

Course Code: 0512-1205 **Course Title: Animal Reproduction and Embryology**

Level and Term: L-1, T-2 **Section: 253 (A+B)** **Course Teacher Initials: HKC**
Time: 2 Hours **Total Marks: 40**

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			Marks
1.	(a) What is PGCs? Illustrate the life history of germ cells.	[CLO2, PLO2, C1]	5
	(b) Outline ovulation. Diagrammatically present the structure of egg cell.	[CLO2, PLO2, C2]	3
2.	(a) How do you demonstrate animal reproduction and breeding seasons?	[CLO4, PLO2, C2]	5
	(b) State fertilization and implantation process with a self-explanatory figure.	[CLO2, PLO2, C2]	3
3.	(a) Define childbirth. Elaborate the key stages of childbirth.	[CLO2, PLO2, C6]	4
	(b) How preventive medicine plays the role in the context of animal health and diseases?	[CLO4, PLO2, C1]	4
4.	(a) Outline reproductive efficiency. Explain the common measures of reproductive efficiency.	[CLO4, PLO2, C5]	6
	(b) What are the key principles of reproduction success?	[CLO4, PLO2, C1]	2
5.	(a) Construct the roots of developmental biology. Elaborate the concept of gene expression in developmental biology.	[CLO4, PLO2, C3]	5
	(b) Diagrammatically simplify the cell signaling types.	[CLO4, PLO2,C4]	3