



Department of Genetic Engineering and Biotechnology
Faculty of Health and Life Sciences
B. Sc. (Hons.) in Genetic Engineering and Biotechnology
Final Examination Summer 2025

Course Title: **Animal Reproduction and Embryology**

Course Code:
GEB 0512-1205

Level and Term: L-1, T-2
Time: 02 Hours

Section: 251 (A+B)

Course Teacher Initial: KMH
Total Marks: 40

Splitting any answer is strictly prohibited

			Marks
1	(a) Discuss anestrus and cystic ovarian disease including their etiology, clinical signs, diagnosis and treatment.	[CLO3, PLO1, C6]	4
	(b) State endometritis and metritis and mention their etiology, clinical signs, diagnosis and treatment.	[CLO1, PLO1, C2]	4
2	(a) Elaborate the reproductive disorders in male farm animals.	[CLO1, PLO3, C6]	3
	(b) Show in tabular form the key measures of reproductive efficiency in farm animals.	[CLO1, PLO2, C3]	5
3	(a) Define developmental biology and write its stages and applications.	[CLO1, PLO2, C2]	4
	(b) Discuss the major areas within developmental biology including different techniques being used.	[CLO5, PLO2, C6]	4
4	(a) Explain the fundamental concepts of gene expression regulation during embryonic development.	[CLO4, PLO2, C4]	4
	(b) Describe the process of cleavage, blastocyst formation and implantation.	[CLO3, PLO2, C2]	4
5	(a) Show in tabular form the seasonal reproduction patterns in farm animals.	[CLO1, PLO2, C3]	5
	(b) Discuss on spermatogenesis, oogenesis and the mechanism of fertilization in farm animals.	[CLO1, PLO2, C6]	3