



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

Course Code:  
GEB 0512-1103

Course Title: Introductory Animal Sciences

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

Section: 251 A, B

Course Teacher Initials: KMH & DJA  
Total Marks: 40

Splitting any answer is strictly prohibited

- |   |   | Marks |
|---|---|-------|
| 1 | (a) Evaluate the key features of economic and biotechnological significance of Mammalia. [CLO1, PLO1, C5]   | 3     |
|   | (b) Analyze the economic and biotechnological significance of Arthropoda. [CLO1, PLO1, C4]  | 3     |
|   | (c) Explain the diverse economic and biotechnological significance of Aves ( <i>Gallus domesticus</i> ). [CLO1, PLO1, C2]   | 2     |
| 2 | (a) Discuss the types of animals being used for practical and research purposes mentioning their ethical considerations. [CLO1, PLO2, C6]                                 | 4     |
|   | (b) Demonstrate the implications/purposes of using laboratory animals. [CLO4, PLO2, C2]   | 4     |
| 3 | (a) Explain animal ecology and demonstrate its branches. [CLO1, PLO2, C2]   | 3     |
|   | (b) Elaborate the roles of animals in ecosystems and discuss the relationship of ecology with other disciplines/ecosystems. [CLO5, PLO2, C6]                              | 5     |
| 4 | (a) Briefly discuss on apiculture and sericulture farming mentioning their technical and commercial aspects. [CLO1, PLO2, C6]   | 4     |
|   | (b) Explain the technical and financial aspects of dairy and poultry farming. [CLO1, PLO2, C2]  | 4     |
| 5 | (a) Elucidate the major viral and bacterial diseases of dairy animals mentioning their causal agents, clinical symptoms, treatment and control measures. [CLO4, PLO2, C5] | 4     |
|   | (b) Discuss the common viral and fungal diseases of poultry highlighting their causal agents, clinical symptoms, treatment and control measures. [CLO4, PLO2, C5]         | 4     |