



**Department of Genetic Engineering and Biotechnology**  
**Faculty of Health and Life Sciences**  
**B. Sc. (Hons.) in Genetic Engineering and Biotechnology**  
**Midterm Examination Summer 2026**

**Course Code:** 0512-1205

**Course Title:** Animal Reproduction and Embryology

**Level and Term:** L1, T2

**Section:** 261-A

**Course Teacher Initials:** AR

**Time:** 1 Hour 30 Minutes

**Total Marks:** 25

**Answer the Following Questions:**

**Marks**

- |   |                                                                                                 |                  |     |
|---|-------------------------------------------------------------------------------------------------|------------------|-----|
| 1 | (a) Define reproduction. Write the scope of Animal Reproduction and Embryology.                 | [CLO1, PLO1, C1] | 2.5 |
|   | (b) Mention the factors responsible for reproduction                                            | [CLO1, PLO1, C2] | 2.5 |
| 2 | (a) What is reproductive system? Classify reproductive system.                                  | [CLO1, PLO2, C3] | 2.5 |
|   | (b) Describe male reproductive system of poultry with figure.                                   | [CLO1, PLO1, C4] | 2.5 |
| 3 | (a) Define endocrine gland. Describe different types of hormone receptor with suitable example. | [CLO3, PLO1, C6] | 3.0 |
|   | (b) Illustrate the regulation of male reproductive hormones.                                    | [CLO3, PLO2, C4] | 2.0 |
| 4 | (a) What is hormone. Classify reproductive hormones.                                            | [CLO3, PLO1, C1] | 3.0 |
|   | (b) Discuss about human chorionic gonadotropin (hGC).                                           | [CLO3, PLO2, C5] | 2.0 |
| 5 | (a) What is primordial germ cell? How does it migrate during development of fetus.              | [CLO2, PLO2, C2] | 2.5 |
|   | (b) Describe the process of spermatogenesis in human.                                           | [CLO2, PLO2, C5] | 2.5 |