

**October 2025**  
**B.A./B.Sc.**  
**Fifth Semester**  
**DISCIPLINE SPECIFIC ELECTIVE – 2**  
**ZOOLOGY**  
*Course Code: ZOD 5.21*  
(Reproductive Biology)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Explain in detail the hypothalamo-hypophyseal-gonadal axis in humans. Add a note on its role in the regulation of reproductive functions in male. 10+4=14
2. Write a note on each of the following: 7×2=14
  - (a) Mechanism of hormone action
  - (b) Steroids

**UNIT-II**

3. Explain the kinetics and hormonal regulation of spermatogenesis. 7+7=14
4. Write a note on each of the following: 7×2=14
  - (a) Accessory glands in male reproductive system.
  - (b) Sperm transportation in male tract

**UNIT-III**

5. Describe the histology of ovary with a neat diagram. 10+4=14
6. Write a note on each of the following: 7×2=14
  - (a) Estrus cycle in rat
  - (b) Estrogen and progesterons

## UNIT-IV

7. Define parturition. Explain the mechanism of parturition and its hormonal regulation. 2+12=14
8. Write a note on each of the following: 7×2=14
- (a) Hormonal regulation of gestation
  - (b) Lactation

## UNIT-V

9. What is ART? Explain any three techniques used in ART. 2+12=14
10. Write a note on each of the following: 7×2=14
- (a) Contraceptive methods in female
  - (b) Causes of infertility in male
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