

2023
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. What is steroid hormone? Classify steroid hormone with examples. State the functions of the steroid hormones. 14
2. Explain hypothalamo-hypophyseal-gonadal axis with a diagram. How is gonadotropin secretion regulated in males and females? 7+7=14

UNIT-II

3. Where are germ cells located in males? Give an account on the germ cell renewal system with a diagram. 2+10+2=14
4. Elucidate the physiology of maturation of spermatozoa and detail its transcription in male tract. 8+6=14

UNIT-III

5. Give an illustrative account on the histology of ovary. Explain steroidogenesis metabolism in ovaries. 2+5+7=14
6. Name ovarian hormones and state its functions. Explain the three stages of folliculogenesis. What are the common changes that can occur in the female reproductive tract? 5+6+3=14

UNIT-IV

7. Explain the processes of implantation and gestation and their hormonal control. 7+7=14

8. Describe the physiology of parturition and its hormonal regulation. 8+6=14

UNIT-V

9. Write brief accounts on the following: 7×2=14

(a) Sex selection

(b) Sperm bank

10. Write notes on the following: 7×2=14

(a) Infertility in male

(b) GIFT
