

2022
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 gonadal hormone? Explain the pathway of mechanism of gonadal hormone action. 3+11=14
2. Explain the development and differentiation of gonads of reproductive system with diagram. 11+3=14

UNIT-II

3. Explain the cellular structure of testis in human. What are the differences between the male reproductive structure of human and rat? Name the accessory glands associated with testis and mention their functions. 8+2+4=14
4. Give an account on the structure and function of epididymus. Explain briefly on androgen synthesis. 10+4=14

UNIT-III

5. What is ovulation? Narrate in detail the formation and regression of corpus luteum. 2+12=14
6. Explain the phases of reproductive cycles in female rat. How does the action of hormones bring about the changes in this reproductive cycle? 7+7=14

UNIT-IV

7. Explain the process of fertilization in human. 14
8. Write a note on the diagnosis of pregnancy. Briefly explain the relationship between foetus and maternal tissues. $7+7=14$

UNIT-V

9. Define infertility. What are the various causes and management of female infertility? $2+12=14$
10. Write a note on the following: $7 \times 2 = 14$
- (a) Frozen embryos
 - (b) Family planning
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