

**2021/TDC(CBCS)/EVEN/SEM/
ZOODSE-601T/165**

**TDC (CBCS) Even Semester Exam.,
September—2021**

ZOOLOGY

(6th Semester)

COURSE NO. : ZOODSE-601T

(Reproductive Biology)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any *fifteen* questions from the following :

1×15=15

- 1. Define reproduction.**
- 2. What is the main function of reproductive system?**
- 3. On which factors differentiation of gonads actually depends?**

4. Name the gonadal hormones in human.
5. Name the main duct in human from where the oviduct, uterus, etc. has formed in females.
6. What is hypothalamus?
7. Define rete testis.
8. Name the primary male sex organs in rat.
9. What is tunica albuginea?
10. What are primary spermatocytes?
11. Mention the functions of Sertoli cells.
12. Define spermiation.
13. What is the exact location of ovary in females?
14. Name two main histological parts of ovary.
15. What are graafian follicles?
16. Define ovulation.
17. What is corpus albicans?

(Continued)

18. The inner wall of uterus is known as ____.
(Fill in the blank)
19. What is the meaning of estrus?
20. Define fertilization.
21. Which hormones play important role in parturition?
22. Mention two important functions of female reproductive tract in human.
23. Name the hormones regulating the menstrual cycle in human.
24. What do you mean by gestation?
25. Define infertility.
26. What is secondary infertility?
27. Give two examples of Assisted Reproductive Technology (ART).
28. What is in vitro fertilization?
29. What are contraceptives?
30. Name two most popular methods of family planning.

SECTION—B

Answer any *five* questions from the following :

2×5=10

31. Mention the main functions of prostaglandins.
32. What are steroids? Name two steroid hormones.
33. Which part of the testes secretes testosterone? Mention the functions of testosterone.
34. What are the male accessory genital glands in rats?
35. Write a note on the formation of corpus luteum.
36. What are the main functions of ovary in human?
37. How do hormones control the process of gestation?
38. What is lactation? Name the hormones that play an important role in lactation.
39. Mention the importance of sperm banks in the treatment of infertility.
40. What do you understand by frozen embryos?

(5)

SECTION—C

Answer any *five* questions from the following :

5×5=25

41. Write the mechanism of action of steroid hormones. 5
42. Write short notes on the following : $2\frac{1}{2} \times 2 = 5$
(a) Hypothalamo-hypophyseal-gonadal axis
(b) Gonadal hormones in human
43. Define spermatogenesis. Write a note on the role of hormones in the process of spermatogenesis. $1+4=5$
44. Give the location of epididymis in human males. Write briefly about the histology and function of epididymis in human. $1+2+2=5$
45. Discuss the female reproductive system in rat with appropriate diagram. $4+1=5$
46. Write short notes on the following : $2\frac{1}{2} \times 2 = 5$
(a) Ovarian hormones
(b) Histology of human ovary

- 47.** What are fallopian tubes? Write briefly about the process of ovum transport in the fallopian tubes. 2+3=5
- 48.** Write short notes on the following : 2½×2=5
- (a) Hormonal control of implantation
- (b) Pregnancy diagnosis
- 49.** What do you understand by primary infertility? What are the major causes of primary infertility in males and how can they be managed? 1+2+2=5
- 50.** Write short notes on the following : 2½×2=5
- (a) Assisted reproductive technology with special reference to gamete intra-fallopian transfer (GIFT)
- (b) Modern contraceptive technologies

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