

**2022/TDC(CBCS)/EVEN/SEM/
ZOODSE-601T/095**

TDC (CBCS) Even Semester Exam., 2022

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 are gonadotropins?
3. Testes descend from which embryonic structure?
4. Name two steroid hormones.

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5. Define spermiogenesis.
6. What is tunica albuginea?
7. Mention the functions of Sertoli cells.
8. Name the testicular hormone.
9. Define ovulation.
10. What is oogenesis?
11. Name two ovarian hormones.
12. What is the function of fallopian tubes in female reproductive system?
13. Define fertilization.
14. Name the hormone responsible for inducing lactation in human.
15. What is estrous cycle?
16. Which hormone helps in parturition?
17. Mention any two causes of infertility in human.
18. Write the full form of IVF.

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(Continued)

(3)

19. What are oral contraceptives?
20. Define tubectomy.

SECTION—B

Answer any *five* questions from the following :

2×5=10

21. Name the genital ducts present in the reproductive system of rat.
22. What are glycoprotein hormones? Give one example.
23. Mention the functions of testes.
24. What are the accessory glands found in the male reproductive system of rat?
25. What is corpus luteum? Mention its functions.
26. Name the different parts of female reproductive system in human. What is the main function of oviduct?
27. Mention in brief about the role of FSH in ovulation.

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(Turn Over)

(4)

28. Name the hormones which regulate the gestation process in females.
29. Write a brief note on frozen embryos.
30. Mention the main causes of infertility in males.

SECTION—C

Answer any *five* questions from the following :

5×5=25

31. Write a detailed note on the development of testes in rat. 5
32. Write short notes on any *two* of the following : $2\frac{1}{2} \times 2 = 5$
- (a) Prostaglandins
 - (b) Hypothalamo-hypophyseal-gonadal axis
 - (c) Development of external genitalia in male
33. Name the main parts of male reproductive system in rat. Add a note on the histology of seminiferous tubules. Mention at least two functions of seminiferous tubules. $1+3+1=5$

(5)

34. Spermatogenesis occurs in which part of the testes? Write a note on the hormonal regulation of spermatogenesis. $1+4=5$
35. Discuss the histology of ovary in detail with appropriate illustration. 5
36. Write short notes on the following : $2\frac{1}{2} \times 2 = 5$
- (a) Graafian follicles
 - (b) Ovarian hormones and their functions
37. What do you understand by reproductive cycle? Name the different types of reproductive cycles found in mammals. Add a brief note on the hormonal regulation of menstrual cycle. $1+1+3=5$
38. Write short notes on any *two* of the following : $2\frac{1}{2} \times 2 = 5$
- (a) Diagnosis of pregnancy
 - (b) Transport of sperm in the female reproductive tract
 - (c) Implantation and the hormones controlling the process

39. Define infertility. What are the main causes of infertility in females? Discuss briefly.

$$1+1+3=5$$

40. Write short notes on any two of the following :

$$2\frac{1}{2} \times 2 = 5$$

- (a) Diagnosis of infertility
- (b) Gamete intrafallopian transfer (GIFT)
- (c) Mechanical contraceptives
