

QP CODE: 19101508



Reg No : .....  
Name : .....

**B.Sc DEGREE (CBCS) EXAMINATION, MAY 2019**

**Fourth Semester**

B.Sc Zoology Model II Aquaculture

**Vocational Course - ZA4VOT07 - REPRODUCTIVE PHYSIOLOGY AND ENDOCRINOLOGY**

2017 Admission onwards

631AC0A6

**Maximum Marks: 60**

**Time: 3 Hours**

**Part A**

Answer any **ten** questions.

Each question carries **1** mark.

1. What are seminiferous tubules?
2. What are the maturity stages of the teleost ovary
3. Distinguish between spermatids and sperms?
4. Comment on Pars Intermedia?
5. What are Pancreatic islets? Where are they situated?
6. What are Pericardial organs
7. What is Linpe Method in fish breeding?
8. What are the disadvantages of anaesthesia using carbon dioxide dissolved in water?
9. Why is sex reversal done in Tilapia?
10. Explain dilution ratio in Cryopreservation?
11. What are the different methods of eyestalk ablation?
12. Comment on fish morula?

(10×1=10)

**Part B**

Answer any **six** questions.

Each question carries **5** marks.

13. Describe the male reproductive system in prawns with suitable diagram?
14. What is ovoviviparity? Explain ovoviviparity in Elasmobranchs and teleosts with suitable examples?
15. Explain the different types of sex determination in fishes?
16. What is the Hypothalamus- Pituitary- Gonadal Axis in fishes? How is it involved in the control of maturation in fishes?





17. What is Parasitic Castration? Explain parasitic castration with reference to crabs?
18. Explain the different levels of hormonal control and induced maturation in fishes?
19. Explain environmental control of reproduction in fishes?
20. What are Gonadotropin Releasing Hormones? Which are the releasing hormones used for induced breeding? What are the advantages of releasing hormones?
21. Explain hatching and larval development in teleosts?

(6×5=30)

### **Part C**

Answer any **two** questions.

Each question carries **10** marks.

22. Describe the Male and Female reproductive systems in Crabs? Add a note on sexual dimorphism in crabs?
23. Explain the source, types and functions of hormones involved in reproduction in fishes?
24. Explain the endocrine control of reproduction and moulting in Crustacea. Add a note on the interaction between hormones controlling moulting and reproduction?
25. Explain the principle and procedure of hypophysation in fishes

(2×10=20)

