



21100967

QP CODE: 21100967

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, MARCH 2021

Fourth Semester

B.Sc Zoology Model II Aquaculture

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

2017 Admission onwards

EB87D2B4

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is Tunica Albuginea?
2. What is Vitellogenesis?
3. What is female heterogamety? What are the different types?
4. What is Sella Turcica?
5. Mention the functions of Calcitonin?
6. What is Methyl Farnesoate?
7. What is meant by induced maturation?
8. What is Pregnant Mare Serum?
9. What is intramuscular injections?
10. How is the pituitary gland preserved after collection?
11. What is an electrocautery apparatus? What is it used for?
12. What is hypoblast?

(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. Describe the male reproductive system of crabs with suitable diagrams?
15. Explain classification of maturity stages of testes and ovaries in Teleosts?
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 different non pharmaceutical methods of anaesthesia? Discuss their advantages and disadvantages?
19. What is monosex culture? Describe the purpose, advantages and methods of monosex culture?
20. What are cryoinjuries and cryoprotectants? Explain the different types of cryoprotectants and their mode of action?
21. Explain Pelagic and Demersal eggs in teleosts? How are teleost eggs classified according to yolk content and arrangement of yolk?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Explain the different types of ovoviviparity exhibited by Elasmobranchs and Teleosts?
23. Explain the source, types and functions of hormones involved in reproduction in fishes?
24. Explain the structural organisation and functions of the Neuroendocrine systems in Crustacea?
25. Explain the environmental control of reproduction in fishes and prawns?

(2×10=20)

