25019891

QP CODE: 25019891

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS)) REGULAR/ IMPROVEMENT/ REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

Fourth Semester

B.Sc Zoology Model II Aquaculture

Vocational Course - ZA4VOT07 - REPRODUCTIVE PHYSIOLOGY AND ENDOCRINOLOGY

2017 Admission Onwards

68F3BA9E

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Cite any two examples for ovoviviparity in Elasmobranchs?
2. What is spermiogenesis?
3. Distinguish between Synchronous and consecutive hermaphroditism with examples.
4. Which are the hormones secreted by the Neurohypophysis?
5. Comment on Corpuscles of Stannius.
6. Comment on the role of Androgenic gland in poarasitic castration.
7. What is spawning?
8. Distinguish placental gonadotropins from pituitary gonadotropins.
9. Mention the advantages and disadvantages of intraperitoneal injections.
10. What is Electroanaesthesia?
11. What are French Straws?
12. Distinguish between Epiboly and Emboly.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain the female reproductive system in Teleosts.
14. Explain the structure of a Spermatophore. Describe sexual dimorphism in penaeid prawns.
15. Explain the female reproductive system in crabs with suitable diagrams.
16. What is the Hypothalamus- Pituitary- Gonadal Axis in fishes? How is it involved in the control of maturation in fishes?
17. Explain the strictural organisation, position and hormones produced by the true endocrine organs in Crustacea.
18. Explain the different levels of hormonal control and induced maturation in fishes.
19. Briefly explain Hypophysation in the induced breeding of fishes?
20. What is monosex culture? Describe the purpose, advantages and methods of monosex culture.
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 Classification of maturity stages of ovary and testes in fishes with suitable diagrams.
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)