

Reg. No

Name

M. Sc DEGREE END SEMESTER EXAMINATION - MARCH 2020
SEMESTER 2 : AQUACULTURE AND FISH PROCESSING
COURSE : 16P2AQCT07 : PHYSIOLOGY AND PATHOLOGY OF FIN FISH AND SHELL FISH
(For Regular - 2019 Admission & Supplementary 2018/2017/2016 Admissions)

Time : Three Hours

Max. Marks: 75

Section A**Answer any 8 (2 marks each)**

1. What is Genital papillae?
2. Explain hair cells.
3. Give an account on the accessory respiratory organs.
4. Define alkalosis
5. Explain rumpfdarm.
6. What is Appendix masculina ?
7. What is oogenesis?
8. What is corpuscles of stannius?
9. What are principal islets ?
10. Name four bacterial diseases in aquaculture.
11. Immunity.
12. What are the quarantine measures to be followed in case of diseased fishes?

(2 x 8 = 16)

Section B**Answer any 7 (5 marks each)**

13. Comment on the effects of temperature in the reproduction of fishes.
14. Explain the processes of gametogenesis.
15. Role of different exchanger systems in osmoregulation.
16. Describe major digestive fluids and enzymes in fishes.
17. Briefly explain gonochorism.
18. What are the ovulating agents in fishes?
19. Comment on true endocrine gland.
20. Whirling disease.
21. What is Necrosis?
22. What is saprolegniasis?

(5 x 7 = 35)

Section C**Answer any 2 (12 marks each)**

23. Give an essay on homeostasis in fish.
24. Give an account on the secondary sexual characters in various fishes.
25. Write an account on the hormonal analogues used for induced breeding in fishes.
26. Give an account on the protozoan parasites in fishes, their transmission mode, preventive and control measures.

(12 x 2 = 24)