

Reg. No

Name

19P2037

MSc DEGREE END SEMESTER EXAMINATION - MARCH/APRIL 2019

SEMESTER 2 : AQUACULTURE AND FISH PROCESSING

COURSE : 16P2AQCT07 : PHYSIOLOGY AND PATHOLOGY OF FIN FISH AND SHELL FISH

(For Regular - 2018 Admission and Supplementary - 2017/2016 Admissions)

Time : Three Hours

Max. Marks: 75

Section A

Answer any 8 (2 marks each)

1. What are agastric fishes?
2. Give an account on the accessory respiratory organs.
3. What are chloride cells ?
4. What are stress factors ?
5. Define Autecology.
6. What is epistasis ?
7. What are Islets of Langerhans?
8. Differentiate between heteroplastic and Homoplastic.
9. What is the importance of Adenohypophysis?
10. What is Phagocytosis?
11. Immunity.
12. Neuromast organ

(2 x 8 = 16)

Section B

Answer any 7 (5 marks each)

13. Briefly explain molt cycle in crustaceans.
14. Give a brief note on biological rhythm.
15. Role of different exchanger systems in osmoregulation.
16. Role of abiotic factors in metabolism of fishes.
17. Briefly explain neurohaemal organs.
18. Explain Androgenic gland.
19. Explain growth promotion in fishes.
20. Blood leucocytes in fishes.
21. What is Necrosis?
22. Common clinical signs that you can observe in diseased fishes in ponds

(5 x 7 = 35)

Section C

Answer any 2 (12 marks each)

23. Effects of environmental factors on growth and metabolism of fish and prawn.
24. Explain hypophysation technique.
25. Write an account on the hormonal analogues used for induced breeding in fishes.
26. What are the principles and methods of prophylaxis and chemotherapy of fishes?

(12 x 2 = 24)