

Reg. No

Name

19P2024

MSc DEGREE END SEMESTER EXAMINATION - MARCH/APRIL 2019

SEMESTER 2 : AQUACULTURE AND FISH PROCESSING

COURSE : 16P2AQCT06 : BIOCHEMISTRY AND NUTRITION OF FIN FISH & 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 is meant by Osazone reaction?
2. What is Carboxymethyl cellulose? Explain.
3. What are Glycolipids?
4. Explain the formula 18:2 n-3.
5. What is Amino acid toxicity?
6. What is an Iso enzymes?
7. Differentiate between nucleoside and nucleotide.
8. What is metabolisable energy?
9. Mention mechanisms of heat loss in fishes.
10. Name five phytoplankton used in aquaculture
11. What is the significance of yolk sac in fish nutrition?
12. How productive protein value is calculated .

(2 x 8 = 16)

Section B

Answer any 7 (5 marks each)

13. Explain the Carbohydrate metabolism .
14. Briefly explain the fat digestion in fishes.
15. Differentiate between Globular and fibrous proteins.
16. Describe types of enzyme inhibition.
17. Write a short note about translation.
18. Describe the factors affecting energy requirements in fish.
19. Give an account on the protein deficiency diseases in fishes.
20. What is the significane of Probiotics in fish feeds?
21. Give an account on the different types of larval feeds used in aquaculture.
22. Which are the different Feeding methods for fishes.

(5 x 7 = 35)

Section C

Answer any 2 (12 marks each)

23. Give an account on the classification of lipids and its role in aquaculture.
24. Give a detailed account of DNA structure and replication.
25. Explain the significance of Micro and macro minerals in fish nutrition.
26. Explain different aspects of feed handling and storage for aquaculture.

(12 x 2 = 24)